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TENTH BIENNIAL REPORT

OF THE

BUREAU OF LABOR

OF THE

STATE OF MINNESOTA

1905-1906

W. H. WILLIAMS, Commissioner

ST. PAUL, 1906

1907
HARRISON & SMITH CO.
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OFFICERS OF THE BUREAU OF LABOR
1905 AND 1906.

W. H. WILLIAMS,
Commissioner of Labor.

E. J. LYNCH,
Assistant Commissioner.

JULIUS E. MOERSCH,
Statistician.

FRANK E. HOFFMAN,
LOUIS VOGLER,
Deputy Commissioners.

AUG. HAGBERG.
Factory Inspector.

PETER J. KARPEN,
LOUIS P. TORGERSON,
FRANK P. MURRAY,
Assistant Factory Inspectors.

IRENE U. VAN DYKE,
Stenographer.

LOUIS LEVY,
Superintendent, Free Employment Bureau.

LETTER OF TRANSMITTAL.

STATE OF MINNESOTA,
OFFICE OF BUREAU OF LABOR,
ST. PAUL, MINN., DECEMBER, 1906.

To the Honorable the Senators and Representatives of the Legislature of the State of Minnesota,

Gentlemen: I have the honor to transmit herewith the tenth biennial report of the Bureau of Labor for the years 1905 and 1906.

Very respectfully,

W. H. WILLIAMS,
Commissioner.

INTRODUCTORY.

The Bureau of Labor by virtue of law (Chapt. 23, Sec. 1791 Revised Laws of Minnesota of 1905) is authorized to enforce all laws enacted for the protection of the health, lives, limbs and rights of the working classes, and those prescribing the qualifications of persons in trades and crafts.

It is also charged to enforce all laws regulating the employment of minors and women, and to gather statistics relating to all branches of labor, of labor disputes and unions, of Sunday labor, of the industrial and social conditions of the laboring classes, and to conditions of industries.

By the provisions of Chapt. 23, Sec. 1795, Revised Laws of Minnesota of 1905, it is further directed to report to the legislature at each regular session. Its report must contain an account of the work of the bureau, the statistics gathered by it, a statement of all violations of law which have come to its knowledge, and proceedings had in consequence, and such recommendations as the commission deems proper.

In pursuance of these provisions, the Tenth Biennial Report is herewith presented, covering the years 1905 and 1906 and setting forth the work of the bureau during this period.

W. H. WILLIAMS,
Commissioner of Labor.

RECOMMENDATIONS.

In transmitting this report I would call particular attention to some phases of the work undertaken by this department.

With the increase of manufacturing industries and of material wealth, the child labor problem becomes more insistent and difficult of regulation. In order that this may be the more efficiently accomplished it is necessary that the inspectors of this department be in complete harmony with the school authorities of the state, and that they are also informed as to whether or not minor children are in attendance on the schools. **This could best be accomplished by:**

(a) The passage of a law providing for a school census, similar to that of South Dakota.

(b) By the passage of an act absolutely prohibiting the employment of children under 14 years of age, except during vacation of public schools; that no child under 16 years of age shall be employed at any occupation unless he has finished the studies prescribed by law, except during vacation of the public schools; provided that if on investigation it is found that the labor of such child is necessary for its own support or that of a dependent family, that the school authorities may issue a permit for the employment of children over 14 years of age, such permit, however, not to be construed as permitting the employment of the child in any prohibited occupation, also making the standard day's work for children under 16 years of age eight hours.

I would also recommend the addition of a statistician to the force of this department, and provision for the collection of commercial and agricultural statistics.

Chapter 316, Gen. Laws 1905, directed the commissioner of this department to organize and establish in one city in this state containing fifty thousand inhabitants or more, a free employment bureau. Under this authority such bureau was established in the city of Minneapolis, and notwithstanding the fact that the appropriation for the purpose was entirely inadequate, the bureau has been a pronounced success from its inception. I would recommend the establishment of similar institutions in each city of the state of fifty thousand or more inhabitants.

To increase the efficiency of the inspection department, I would recommend that all minor positions in the bureau be placed on a civil service basis.

The old law regulating bakeries and confectioneries has been superseded by Sec. 1819, Chapter 23 of the Revised Laws of 1905. Under the former law, basements of buildings could not be used for bakeries, confectioneries or the manufacture of food products, but in the new law these prohibitive provisions have been eliminated. In the observation of this department this elimination offers an opportunity for the manufacture of food products under unwholesome and unsanitary conditions, aside from being unfair to such manufacturers that use every effort to carry on their trade under strict compliance with the laws of cleanliness and sanitation.

A law prohibiting, under all conditions and circumstances, the use of basements of buildings for the manufacture of food products would find the ready support of the manufacturers and wage earners of such industries, and I would recommend such legislation. This department devotes much attention to the inspection of switches, frogs and guard rails on railroads. This work of necessity requires much time and traveling. Under present condition, that is to say, with due consideration to the appropriation allowed for the operation of the department, such inspections can be carried out only at such places and at such times as the inspectors make their regular annual factory inspections. To make this work still more effective, such inspections should extend over all the switches on railroads in the state and should be made more than once in a year. The same is true of inspection of factories in the rural districts, and I desire to call attention to the need of enlarged appropriation for the better operation of the department.

Provisions have been made by which the biennial report of this department shall be printed and distributed as in the case of other executive documents. Occasions have arisen when the department, in the interest of commerce, industry and labor of the state, should make known to the people the results of certain investigations (such as business opportunities in certain sections of the state or opportunities for employment). Under the present provisions such investigations can be published only in the biennial report, and at the time of its publication may have lost its value to the public.

I therefore would recommend such provisions which would enable the Commissioner of Labor to have published for distribution in the state and at the expense of the state, advance reports on matters of immediate importance.

W. H. WILLIAMS,
Commissioner of Labor.

FACTORY INSPECTION

FACTORY INSPECTION

The inspection work of the state Bureau of Labor is authorized and directed by various acts of Legislature.

Chapter 7, General Laws of 1893 (amended by Chapter 123, G. L. of 1895) an act providing for the protection of employes, directs inspection of factories, mills, workshops, hotels, restaurants, buildings and public or private works. (Sec. 11.) The term "public or private works" in Sec. 17 of the same act is defined as meaning any mine, railroad or railroad yard, telegraph company, the work of constructing any sewer, bridge, tunnel, the road-bed of any railroad, any building or other structure by the authority of any city, town or municipality, except in so far as the regulations thereof conferred upon the board of railroad and warehouse commissioners.

Chapter 171, General Laws of 1895 (amended in 1897) regulates the employment of children, and carries with it the authority for factory inspectors and other members of the Bureau of Labor to make visitations of factories, workshops, mines, mercantile establishments or other places. (Sec. 3 and 10.)

Chapter 10, General Laws of 1889, an act to compel employers of females to furnish seats for such employes, for this purpose directs inspection of mercantile and manufacturing establishments, hotels or restaurants, and other places.

Chapter 199, General Laws of 1895 (amended in 1897), an act to provide for the sanitary regulation of bakeries and other establishments for the manufacture of bread and other food products, stipulates for the inspection of bakeshops, confectioneries, creameries, preserving establishments, slaughtering and meat packing establishments, sausage factories, and similar establishments.

Chapter 16, General Laws of 1887,—an act to provide for the better protection of railway switches—orders the inspection of railway switches and crossings in yards, and of divisional and terminal stations on all railroads in the state.

Chapter 397, General Laws of 1903—an act entitled an act providing for the inclosure of shafts of hoist machinery—directs the inspection of buildings and other structures in course of construc-

tion, and chapter 148, General Laws of 1899, an act providing for an investigation of Sunday labor in this state,—authorizes employes of the Bureau of Labor to visit any place in the state where labor is employed.

In the inspection of factories, mills and workshops, the Bureau of Labor is primarily charged with the duty of seeing that all machinery is provided with safety appliances as well as that the places where a person has to work, or to pass by while at work, are reasonably safe and protected. The ventilation and sanitation of the workrooms and their surroundings have to be looked into; also that protection is provided against fire, and means of escape in case of fire.

The enforcement of the child labor laws also requires constant visits to manufacturing and mercantile establishments, and in connection with all such inspections the members of the Bureau of Labor are required to take record of the number of employes found employed in such establishment.

Such records show the number of males, females and children under 16 years of age, the length of the working day and number of hours work during the week, the number of regular night workers, number of regular Sunday workers, and such other information as the Commissioner of Labor may desire to make the subject of investigation in the interest of the commercial, industrial, social, educational, moral and sanitary conditions of the laboring classes, and the permanent prosperity of the respective industries of the state.

The reports of the factory inspectors form the basis of the general report on the inspection work which is herewith presented.

Chapter 6, General Laws of 1893, however, contains the proviso that in the reports of the Bureau of Labor no use shall be made of names of individuals, firms or corporations supplying the information, such information being deemed confidential and not for the purpose of disclosing personal affairs. The inspection reports therefore have been grouped according to industry, trade or nature of work carried on. The detailed reports showing where and how many establishments of a certain industry were found, together with the number of wage earners employed at the time of the inspection. The summary report being a compilation of the different detailed reports.

It is, however, the desire of the Bureau of Labor to guard against the supposition that this report is a complete census of all industries, trade and business in the state. This is not the case, nor is it the intention of the Bureau of Labor to have this idea conveyed to the public. The report shows nothing more nor less than the inspection work of the department as it has been carried out during the years.

A glance at the various tables will show that of all cities, towns, villages in the state, outside of the three principal cities, St. Paul, Minneapolis and Duluth, only 149 such localities have been visited by officials of the Labor department during 1905, and it is but fair to assume that many of the places left out had some industrial establishments, such as flour mills, creameries, grain elevators, wheelwriting shops, etc., but in mapping out the inspection work for the year the Commissioner of Labor was forced to give due consideration to the appropriation set aside by the legislature for the operation of the department.

INSPECTION OF 1905

WAGE EARNERS.

The summary report shows that during the year 1905 there have been made 4,244 separate inspections of manufacturing, mercantile and other establishments, and 106,716 wage earners have been reported as found employed in these establishments. They were composed of 86,035 adult males, 18,711 adult females and 1,970 children under 16 years of age, or 1,390 boys and 580 girls. The relative proportion of the stated number of wage earners therefore was as follows: There were employed one adult female to 4.6 adult males; one child under 16 years of age to 54.2 adults; one boy to 61.9 adult males and one girl to 32.3 adult females. Of the total number of wage earners 80.6 per cent were men; 17.5 per cent women and 1.9 per cent children.

INDUSTRIES.

The lumber industry, as in former years, furnished employment to the largest number of wage-earners. There have been recorded 61 saw mills with 10,248 employes; 115 woodworking establishments, such as planing mills, sash, door and blind factories, with 4,628 employes; 13 factories for the manufacture of wooden boxes, with 706 wage earners; making a total of 15,582 wage earners, or 14.6 per cent of the total number of wage earners reported. The adult males employed in these industries represented 17.8 per cent of all adult male wage earners. Furniture and cabinet working, while a distinct industry, is allied to the lumber and woodworking industry; forty-five establishments were reported with 1,725 wage earners or 1.6 per cent of the total number of wage earners. The work in railroad shops and roundhouses represents many trades and vocations; as a whole it is second in importance, with reference to number of wage earners, steadiness of employment and average amount of wages paid. There were reported 71 establishments, and 7,619 wage earners, which composed 8.8 per cent of the total adult males.

Printing and allied trades take third place. There are reported 442 printing establishments with 6,104 persons; 15 book-bindingeries and blankbook factories with 173 persons; 7 engraving establishments with 136 persons; 2 lithographing establishments with 55 persons, and 4 electrotyping and stereotyping establishments with 40 persons, or, all told, 6,508 persons which represent in the aggregate 6.1 per cent of all wage earners.

In the great flour and grist milling industry we have 195 establishments, and 4,428 wage earners, a fraction over 50 per cent of whom have been employed in the flour mills of the city of Minneapolis, their total number being 4.1 per cent of all wage earners.

Under metal working industries are classed foundries, boiler shops machine and engine works, structural iron works, sheet metal working, agricultural machinery and implement factories, automobile and bicycle repair shops, brass foundries, coppersmiths, stove works, wire and fence works, tinware factories, iron bed and bed spring factories, electrical machinery and construction shops. In the aggregate there have been reported 312 establishments, and 7,849 wage earners, which represented 7.3 per cent of all wage earners. Of foundries and boiler and machine shops alone, 182 establishments and 3,190 wage earners are recorded, or 3 per cent of all wage earners.

The report shows 156 steam laundries with 2,917 employes, or 2.7 per cent of all wage earners. There are given 45 clothing and garment factories with 2,587 wage earners, or 2.4 per cent, and 12 boot and shoe factories with 2,132 wage earners or 2 per cent.

Bakeries to the extent of 242 establishments, with 1,135 persons employed have been inspected; 10 corn canneries with 805 persons; 5 cracker factories with 617 employes; 115 creameries, with 642 employes; 14 factories of food preparations, with 751 persons; 6 pickling and preserving establishments, with 184 persons; 13 slaughtering and meat packing establishments, with 1,542 wage earners; 2 syrup and jelly factories, with 115 persons. All of these, grouped under the class of food products, show in their aggregate 6,807 wage earners or 6.4 per cent of the total.

The cigar manufacturing industry is represented in the report by 209 establishments and 1,933 wage earners, or 1.8 per cent of all wage earners. There have been inspected 21 fur factories, with 1,377 wage earners, or 1.3 per cent, the largest portion of whom were employed in the fur factories of the city of St. Paul.

At the stations visited by the inspectors, 358 grain elevators and grain cleaning houses were inspected, with 1,284 persons employed, or 1.2 per cent of all wage earners; 46 brick yards employed 1,239 persons, and in 64 breweries were 1,190 persons or 1.1 per cent of all wage earners recorded. Inspectors visited 339 railroad switch yards and enumerated 2,239 persons engaged in track repairing and switch blocking or 2.1 per cent of all wage earners, and in 21 terminal stations 1,680 persons were employed, or 1.6 per cent of all wage earners.

The report records 131 wholesale mercantile establishments, with 5,820 employes, or 5.4 per cent of all wage earners; 31 department stores with 4,949 employes, 4.6 per cent; 112 retail mercantile establishments in the three principal cities, with 3,160 persons, or 2.9 per cent, and 22 telegraph, telephone and messenger service offices, with 1,732 employes, or 1.6 per cent. Each of all other industries and trades had less than 1,000 persons employed, or less than one per cent of the total number of wage earners.

CHILD LABOR.

The summary report enumerates 1,970 children under 16 years of age. They were distributed over 93 industries and trades in the following manner:

One child was reported in each of 24 industries; three children in each of 3; four children in each of 9; five children in each of 4; six children in each of 3; seven children in each of 3; eight children in each of 4; nine children in 1 and eleven in 1.

Three industries had 12 children each employed; two had 13 children each; two had 14 each; two had 16 each and one had 19 children, but each of these industries had less than one per cent of the total number of children in its employ. Twenty-two children, or 1.1 per cent of all children were employed in furniture and cabinet factories; twenty-five children, or 1.3 per cent in paper box factories and the same number in cooper shops.

Twenty-eight children, or 1.4 per cent in confectionery and candy factories; 30 children, or 1.5 per cent in wooden-ware factories; 33 children or 1.7 per cent were found in clothing and garment factories and the same number in slaughtering and meat packing establishments. There were reported 36 children, or 1.8 per cent in steam laundries; 39 or 1.9 per cent in hosiery and knit goods factories; 47 or 2.4 per cent in saw mills 48 or a fraction over 2.4 per cent in cigar factories; 50 or 2.5 per cent in the one match

factory in the state; 51 or 2.6 per cent in wooden box factories and 52 in brick yards. Corn canning establishments had 60 children or 3 per cent of all children in their employ; wholesale mercantile establishments had 77 children, or 3.9 per cent; boot and shoe factories had 83 children or 4.4 per cent; planing mills and sash and door factories had 99 children, or 5.1 per cent; printing establishments employed 116 children or 5.9 per cent; telephone, telegraph and messenger companies had 134 children or 6.8 per cent; retail mercantile establishments had 237 children or 12 per cent, and the largest number were reported for department stores, their number was 307, or 15.6 per cent of all children reported.

NIGHT WORK.

The investigation of night work summarized shows that 6.1 per cent of the given wage earners, or 6,582 persons, were night workers. This is to say that their regular working time was between the hours of 7 p. m. and 6 a. m. Among these are not included such wage earners, who on account of rush of business, or for other reasons, occasionally worked overtime. In the lumber and timber industry it is a general practice for sawmills to work double crews and therefore 33.9 per cent of all night workers must be credited to that industry. The large flour mills also do much night work. In flour mills and grain houses attached to them, 1,209 night workers, or 18.4 per cent of the total, were found. Railroad work in shops and round-houses kept 609 men, or 9.2 per cent of all night workers, engaged; the iron ore docks required 405 of 6.1 per cent, and electric lighting, heating and power plants, gas works and water works in their aggregate, had 407 night workers or 6.2 per cent. In the printing trades were found 285 night workers, or 4.3 per cent; they were mostly engaged in the publication and printing of the daily morning papers. Railroad work and terminal yards added 203 persons or 3.1 per cent to the list of night workers. One establishment engaged in structural iron work had a night force of 176 men or 2.7 per cent; paper mills had 149 night workers, or 2.3 per cent; bakeries had 141, or 2.1 per cent; telegraph, telephone and messenger service required 70 night attendants, or a fraction less than 1.1 per cent, and the blast furnace of West Duluth which is in operation day and night had 68 night

workers, or 1 per cent of the total number. There was night work to some extent carried on in other industries and trades but in each instance the number of night workers were less than one per cent of all night workers.

SUNDAY LABOR.

Sunday labor at gainful occupations in industrial establishments and trades was reported to the extent of 3,920 persons, or 3.7 per cent of the total wage earners. Railroad work in shops and round-houses, terminal yards and taking care of tracks and switches on Sunday, required 17.2 per cent of the regular week-day force engaged in this work and the Sunday workers thus employed in railroad work represented 50.6 per cent of all Sunday work reported. The flour and grist milling industry had 18 per cent of its week-day wage earners engaged in Sunday work. Their number was 1,030 persons which represented 26.2 per cent of all Sunday workers.

Electric light, heat and power plants, gas and water works had 1,277 week day wage earners, of these 586 or 46 per cent also worked Sundays and their number added 14.9 per cent to the total Sunday workers. Telegraph, telephone and messenger offices had 156 Sunday workers or 9 per cent of week day workers and 4 per cent of the total Sunday labor. Two per cent of all day wage earners in the printing trades worked Sundays, their number being 124, or 3.2 per cent of all Sunday workers. Work in creameries required 112 Sunday workers, or 17.4 per cent of the regular week day force, and 2.8 per cent of all Sunday workers.

Saw mills are not operated on Sunday, only repairs are made and this work required 76 Sunday workers or .7 per cent of all saw mill workers, or 1.9 per cent of all Sunday workers. Bakeries had 60 Sunday workers, or 1.5 per cent of all Sunday workers and 5.3 per cent of their regular week day employees. In street railway shops were employed 60 Sunday workers or 6.2 per cent of the week day wage earners, and 1.5 per cent of all Sunday workers. Laundries had 58 Sunday workers or 1.4 per cent of all; they were employed in hotel laundries.

The preparation of Malt required the Sunday work of 43 Sunday workers or 1.1 per cent of all Sunday workers.

Besides the Sunday work enumerated there was some Sunday work in 52 other industries and trades but in every instance the number of Sunday workers was less than one per cent of all Sunday workers, and the great number of Sunday workers were regular watchmen taking care of the establishment or firemen keeping up steam and heat.

ORDERS.

A large number and variety of orders have been issued by the officials of the Bureau of Labor during 1905. They will be found in detail elsewhere in this volume and it will be seen that many orders refer to various subjects. In the interest of safe-guarding machinery, protection of stairways, hoistways and platforms, 206 orders were issued; 77 orders had for their subject, the removal or covering up of exposed collar set screws on shafting. Ventilation and sanitation of workrooms and bakeries required 56 orders; non-observance of child labor laws caused 28 orders; 8 orders demanded compliance with general factory laws; 4 orders were issued on account of defective fire protection and in 12 instances the erection of outside fire escapes were demanded. Defective and missing switch blocking on railroads was the subject of 167 orders to railroads. For the majority of these orders, compliance was secured without friction, since employers of labor readily have come to see that any measure which will protect the employe while at work, in a great measure, will also be a protection to the employer against possible losses resulting from personal damage suits and their attendant evil.

ACCIDENTS.

During the year 1905, 840 reports of accidents have been made to the Commissioner of Labor; of these accidents 58 were fatal, 230 were serious 524 slight, and the extent and nature of 28 injuries had not been stated.

A detailed report of accidents also will be found in this volume.

INSPECTION OF 1906

WAGE EARNERS.

The report for 1906 shows 4,513 inspections as against 4,244 in 1905 and an increase in wage earners numbers from 106,716 to 112,675 or, 5.6 per cent, composed of 92,262 adult males, 19,420 adult females and 993 children under 16 years of age.

The increases for adult wage earners were 7.2 per cent for males and 3.8 per cent for females. No comparison as to children can be made, since the figures for 1906 do not show child labor for the whole year, but only for seven months.

The relation of one class of adult wage earners to the other has but slightly changed during the year, for in 1905 it was one adult women to 4.6 adult men and in 1906 one women to 4.7 men. the latter representing 82.6 per cent of all adults and the former 17.4 per cent.

In the report on manufacturers of the United States Bureau of the Census of 1905 the state was divided in urban and rural districts, the former comprising all cities with a population of over 8,000 at the census of 1900. Following this precedent and taking the state census report of 1905 as a basis we find 10 cities with a population over 8,000 as against 7 in 1900, they are Brainerd, Duluth, Faribault, Mankota, Minneapolis, Red Wing, St. Cloud, St. Paul, Stillwater and Winona, Brainerd, Faribault and Red Wing being the latest addition to this class.

Maintaining the former division, we find for the urban district a wage earners total number of 92,085 persons in 1906 as against 85,669 in 1905 and we observe that while their numbers in the urban districts increased 7.5 per cent, the rural districts showed a decrease in wage earners numbers 2.1 per cent.

Male wage earners in the urban district increased 9.7 per cent in number and in the rural district they decreased 1.3 per cent. Woman wage earners in the former district increased 5 per cent, while the decrease in the rural district amounted to a fraction over 12 percent.

Child labor as far as has been shown in 1906, was found to exist in the following proportion:

In manufacturing industries and mechanical occupations 69.5 per cent,

In mercantile establishments and telegraph, telephone and messenger companies 30.5 per cent,

In all occupations in the urban districts 83.8 per cent,

In all occupations in the rural districts 16.2 per cent,

LEADING INDUSTRIES.

The lumber industry in 1906 ranked first in importance as to wage earners numbers. The number of persons employed in and around saw mills during the year had increased from 10,248 to 11,125; another important increase is to be noted for planing mills and sash, door and blind factories. Such trades as are allied to the lumber industry, as the manufacture of woodenware, wood boxes, furniture and refrigerators, all showed an increase in wage earners, the only exception being in cooperage work where a decided reduction in wage earners occurred.

All the wood working industries combined furnished employment for 18.3 per cent of all wage earners and their aggregate of 1905 had increased 10.5 per cent.

Railroad work in shops and round-houses, coach and car repairing, cleaning and equipping for service took second place for number of wage earners as a single industry. For 1906 are shown 8,305 persons as against 7,619 in the preceding year, showing an increase of 8.9 per cent and representing 7.4 per cent of all wage earners.

The combined iron-working industry showed the remarkable increase of 38.4 per cent in wage earners within the period of one year, which in their aggregate represented 7.8 per cent of the total number. Under this heading have been classed, machine shops, foundries, boiler and blacksmith shops, structural and ornamental iron works, wire works and factories which manufacture agricultural machinery and implements.

The combined industry could perhaps be ranked second in importance in place of the railroad shops, the classification however, being arbitrary.

For the printing and allied trades, which take fourth place, a decrease of wage earners of 3.7 per cent has to be noted, the same occurring in printing and publishing work alone, each of the allied trades, such as bookbinding, blank-bookmaking, lithographing, electrotyping and stereotyping recording an increase in wage earners. The printing trades furnished work for 5.4 per cent of all wage earners.

The flour and grist milling industry showed an increase of five establishments, but a decrease in wage earners of 224, or 5 per cent; the preparation of cereal food products had a slight increase in number of employes; the two branches together employed 4.4 per cent of all wage earners.

Clothing and garment factories have done a larger business in 1906 than in 1905; their wage earners, which represented 2.9 per cent of the total for the state, had increased 25 per cent during the year.

Work in steam laundries furnished employment for 2,917 people in 1905, but during the following year their number was reduced 5.5 per cent; which also reduced their percentage of all wage earners to 2.4.

The wage earners in the boot and shoe manufacturing industry represented 2.1 per cent of the grand total, but an increase in number of 13.7 per cent since 1905 gives evidence of the activity in this industry.

Other industries, each employing over one per cent but less than two per cent of all wage earners, were baking and the manufacture of other bakery products, brewing of malt liquors, brick manufacturing, slaughtering and meat packing at wholesale. All of these showed increases in their number of employes.

A decrease however is to be reported in number of wage earners of 3.4 per cent for cigar manufacturing, of 18.7 per cent for fur manufacturing, and 21 per cent in confectionery work.

Three of the manufacturing industries employed 31.2 per cent of all adult female wage earners; they were clothing manufacturing with 14.1 per cent; laundry work, 10.3 per cent; and printing and publishing, 6.7 per cent. Conspicuous changes within the year, however, occurred in many industries. In clothing manufacturing was an increase since 1905 of adult females of 25.6 per cent; in the printing trades of 4.9 per cent; and in laundry work, 4.5 per cent.

Other important increases in woman wage earners were noted in the manufacture of hats and caps, and of crackers and cookies, being from 32 to 117 in the former, and 261 to 338 in the latter industry.

Decreases in the number of female wage earners are shown in cigar manufacturing, confectionery work, the manufacture of matting and fibre goods, and fur manufacturing.

It has been already noted that 30 per cent of all children under 16 years accounted for in the report of 1906 were found employed in non-manufacturing establishments, being department stores, retail and wholesale mercantile establishments and in telegraph, telephone and messenger service offices. Deducting the number of these children from the total number we find 690 children reported for manufacturing and mechanical trades.

In brick yards were found 13 per cent of such children; in the printing trades, 12.6 per cent, in boot and shoe manufacturing, 9.3 per cent; cigar manufacturing, hosiery and knit goods factories, and planing mills and sash and door factories, each had 5.3 per cent; confectionery factories had 4.2 per cent; wooden box factories, 3.2 per cent; furniture factories and match factories, each 2.6 per cent; saw mills, 2.3 per cent; cracker and cookie factories 2.2 per cent; clothing factories 2 per cent, and the rest of the children were scattered over 58 specified industries.

The report shows 1,165 more regular night workers in 1906 than in 1905, and an increase in regular Sunday workers from 3,920 to 4,457, but their distribution was identical with that shown for the proceeding year.

ORDERS.

A detailed report of the orders issued by the inspection department and referring to safe-guarding of machinery, sanitary conditions and ventilation of work shops, fire protection and enforcement of child labor provisions will be found elsewhere in this volume. A new provision contained in Sec. 1817 of the Revised Laws, 1905, to the effect that factories, mills and workshops more than two stories high shall be provided with inside and outside standpipes, and with one chemical fire extinguisher on each floor, caused issuance of many new orders. The provision as to inside and outside standpipes, however, could but partly be enforced

since many of the specified buildings are so situated that stand-pipes would be absolutely useless and enforcement of the provision would be a dead expense to the owners. This is particularly true of factory buildings in the rural districts.

ACCIDENTS.

During the seven months from January 1, to August 1, 1906, the department received reports of 597 accidents to wage earners in the state. A full report of the accidents, showing industry in which they occurred, and nature of the injuries, will be found in this volume. It should however be stated that since the creation of a county mine inspection department, accidents to mining employes are reported to the mine inspector. His report for the fiscal year ending July 31, 1906, will also be found in this volume.

Under the provisions of Chap. 122, General Laws of 1905, railroad companies are required to report all wrecks and casualties wherein any person is injured or killed to the railroad and warehouse commission, and this accounts for the absence of a great number of such accident reports in the present report of this department.

TABLE 1.—Summary of Inspections By Industries and Occupations for Entire State.

INDUSTRIES	Wage Earners				No. of Inspections				Regular Night Work				Regular Sunday Work				Wage Earners				No. of Inspections				Regular Night Work				Regular Sunday Work																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Adults		Under 16 Years	Total Number	Adults		Under 16 Years	Total Number	Adults		Under 16 Years	Total Number	Adults		Under 16 Years	Total Number	Adults		Under 16 Years	Total Number	Adults		Under 16 Years	Total Number	Adults		Under 16 Years	Total Number																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Male	Female			Male	Female			Male	Female			Male	Female			Male	Female			Male	Female			Male	Female			Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Agricultural machinery and im- plements	30	1,915	1,879	29	7								35	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

TABLE I.—Summary of Inspections By Industries and Occupations for Entire State.—Continued.

INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults	Under 16 Years	Male	Female	Total Number	Adults	Under 16 Years	Male	Female	Total Number	Adults	Under 16 Years	Male	Female	Total Number	Adults	Under 16 Years	Male	Female
	No. of Persons	Regular Night Work	Regular Sunday Work	Number of Persons		No. of Inspections	Regular Night Work	Regular Sunday Work	Number of Persons		No. of Inspections	Regular Night Work	Regular Sunday Work	Number of Persons		No. of Inspections	Regular Night Work	Regular Sunday Work	Number of Persons	
Cement stone and cement sidewalk tile	29	438	434	4	1	32	363	362	1	1	32	363	362	1	1	32	363	362	1	1
Chemicals	3	27	22	5	1	7	36	34	2	2	7	36	34	2	2	7	36	34	2	2
Cigars	208	1,933	1,434	451	14	216	1,889	1,410	422	5	216	1,889	1,410	422	5	216	1,889	1,410	422	5
Clothing—factory product	45	2,587	377	2,177	27	49	3,235	456	2,735	3	49	3,235	456	2,735	3	49	3,235	456	2,735	3
Clothing—mens, custom work and repairing	65	880	726	147	5	101	1,120	918	196	6	101	1,120	918	196	6	101	1,120	918	196	6
Clothing—women's, dressmaking, and repairing	25	719	16	635	8	31	742	20	717	6	31	742	20	717	6	31	742	20	717	6
Conceal roasting, extracts and spices	7	156	126	30	10	7	156	89	66	1	7	156	89	66	1	7	156	89	66	1
Confectionery	30	1,018	404	584	2	28	802	373	400	8	28	802	373	400	8	28	802	373	400	8
Contracting	6	567	564	1	2	7	462	467	2	3	7	462	467	2	3	7	462	467	2	3
Cooperage	25	825	796	4	25	23	676	659	6	11	23	676	659	6	11	23	676	659	6	11
Coppersmithing	1	18	18	8	1	1	18	18	1	1	1	18	18	1	1	1	18	18	1	1
Crackers and cookies	5	617	340	281	5	6	691	338	338	3	6	691	338	338	3	6	691	338	338	3
Creamery products	115	642	559	78	5	128	776	684	90	6	128	776	684	90	6	128	776	684	90	6
Docks—coal	5	501	501	5	1	5	348	348	2	3	5	348	348	2	3	5	348	348	2	3
Docks—iron ore	2	843	843	1	1	2	683	683	1	1	2	683	683	1	1	2	683	683	1	1
Docks—freight	10	144	76	67	1	12	239	124	115	4	12	239	124	115	4	12	239	124	115	4
Dyeing and clothes cleaning	10	184	175	7	2	14	291	278	13	13	14	291	278	13	13	14	291	278	13	13
Electrical machinery and construction	10	184	175	7	2	14	291	278	13	13	14	291	278	13	13	14	291	278	13	13
Electric light, heat and power—buildings	65	338	334	1	1	63	324	324	1	1	63	324	324	1	1	63	324	324	1	1
Electric light, heat and power—public service	5	152	152	1	1	6	156	156	1	1	6	156	156	1	1	6	156	156	1	1
Electric power plants—street car service	6	139	129	2	8	39	89	89	2	8	39	89	89	2	8	39	89	89	2	8
Electric lighting—street and houses	53	192	187	5	5	52	171	169	2	2	52	171	169	2	2	52	171	169	2	2
Electric lighting and water works	45	146	146	1	1	49	167	165	2	2	49	167	165	2	2	49	167	165	2	2

Electroplating	7	127	121	15	1	1	1	9	70	62	7	1	1	12	.....
Electrotyping and stereotyping	4	4	37	2	1	2	2	6	71	93	2	2	2	2	.....
Engraving	7	136	119	16	1	1	1	7	120	97	25	1	1	2	.....
Fibre goods	2	426	174	245	7	18	5	9	378	77	1	1	1	16	.....
Flour and grist milling products	195	4,423	4,327	95	6	1,126	967	200	4,354	4,110	92	2	2	1,266	138
Food preparations	4	751	286	452	12	1	25	14	683	269	470	2	2	3	2
Foundry and machine shop products	182	3,190	3,130	44	16	38	11	222	5,038	4,974	58	6	6	124	22
Furs	21	1,377	626	746	3	2	2	28	1,119	495	620	3	1	3	2
Fur dressing and dyeing	4	104	101	3	3	5	7	5	135	132	3	3	4	4	2
Furniture and cabinet making	45	1,725	1,674	29	22	9	7	51	1,941	1,900	9	16	2	9	7
Gas, illuminating	7	196	194	1	1	70	105	11	282	278	5	1	1	60	81
Gloves and mittens	32	78	32	78	1	1	1	6	111	40	69	2	2	2	.....
Grain cleaning and storing tools	358	1,284	1,283	1	1	83	63	368	1,013	1,010	2	1	1	90	40
Grinding, cutlery and edge tools	1	12	10	2	1	2	2	1	2	2	2	2	2	2	.....
Hand stamps, seals and stencils	7	74	58	15	1	3	1	7	86	70	14	2	2	.....	.....
Hats and caps	7	89	53	32	1	1	1	9	154	67	117	18	19	14	1
Hosiery and knit goods	8	974	156	779	14	25	11	7	475	103	335	18	3	1	2
Iron beds and springs	3	201	179	21	1	1	1	3	204	180	24	1	1	1	2
Iron structural and ornamental	1,076	1,064	1,064	11	1	176	5	4	1,073	1,070	75	2	2	75	2
Jewelry and optical goods	8	121	100	15	1	1	1	8	83	77	6	3	3	1	.....
Iron-pipe	1	356	356	1	1	68	6	1	282	282	72	1	1	72	21
Iron sorting and packing	12	263	214	49	2	3	3	22	254	201	53	4	4	4	54
Junk work	156	2,917	961	1,920	18	18	58	164	2,757	749	1,996	8	8	8	.....
Lead goods	6	6	6	6	6	6	6	6	6	6	6	6	6	6	.....
Leather, tanning	7	112	111	1	1	2	3	8	85	83	1	2	2	1	34
Linseed oil and linseed cake	5	360	355	4	2	56	20	8	549	536	12	1	1	171	.....
Lithographing	2	55	46	7	2	1	1	2	57	45	11	1	1	.....	.....
Looking glass and picture frames	3	43	38	4	1	1	1	6	67	60	7	1	1	.....	.....
Locksmithing and gunsmithing	3	22	21	1	1	1	1	3	27	27	1	1	1	.....	.....
Lumber, planing mill products, incl. sash, door and blind mfg.	115	4,628	4,487	42	99	65	34	122	5,256	5,256	36	36	36	130	49
Lumber and timber	61	10,248	10,199	2	47	2,220	76	57	11,125	11,104	5	16	16	2,764	123
Mating	8	198	197	1	1	13	43	7	89	89	.....	.....	.....	18	49
Marble and tile	2	38	36	1	1	1	1	3	88	88	.....	.....	.....	9	.....
Matches	1	251	64	137	16	34	1	1	121	85	58	5	13	2	1
Matresses and bedding	6	219	189	26	4	1	1	5	223	200	29	2	2	1	1
Medicines and drugs	7	125	60	62	1	1	1	9	163	83	78	2	2	1	1
Millinery	4	767	165	580	6	6	1	29	703	113	682	1	7	2	2
Models and patterns	3	22	22	.....	.....	.....	.....	4	23	23	.....	.....	.....	.....	.....
Monuments and tombstones	31	237	236	.....	1	1	.....	29	477	476	1	1	1	2	2
Musical instruments	5	112	107	4	1	2	1	5	132	127	4	1	1	2	2
Paint and varnish	6	194	171	22	1	3	3	6	117	97	20	2	2	2	.....
Painting, decorating and paper-hanging .....	.....	.....	.....	.....	.....	.....	.....	9	99	97	2	.....	.....	.....	.....
Paper	4	427	420	5	2	149	1	5	571	570	1	1	1	123	3
Paper-hanging	6	184	109	69	6	1	1	7	192	112	80	41	1	1	1
Pickles and preserves .....	.....	.....	.....	.....	.....	.....	.....	56	962	920	.....	.....	.....	.....	.....
Plumbing and gas and steam fitting	61	875	857	17	1	1	1	1	.....	.....	.....	.....	.....	1	1
Pottery and stoneware	4	391	395	17	4	2	9	4	332	329	.....	.....	.....	12	16

INDUSTRIES	1905										1906																				
	No. of Inspections			Wage Earners					Regular Night Work			Regular Sunday Work			No. of Inspections			Wage Earners					Regular Night Work			Regular Sunday Work			Number of Persons		
				Adults		Under 16 Years												Adults		Under 16 Years											
	Total Number	Male	Female	Male	Female	Total Number	Male	Female	Male	Female	Total Number	Male	Female	Male	Female	Total Number	Male	Female	Male	Female	Total Number	Male	Female	Male	Female	Total Number	Male	Female			
Printing and publishing	442	6,104	4,724	1,264	89	27	285	124	435	5,770	4,357	1,326	75	12	144	53	15	15	15	15	15	15	15	15	15	15	15	15			
Pulp-wood	1	34	34				5	9	1	32	32					1					8,305	8,292	12	1					1,377		
Railroad work—shop and round-house	71	7,619	7,593	7	19		609	974	68	8,305	8,292	12	1		839	1,377															
Railroad work—track repairing	339	2,239	2,229				16	210	341	2,498	2,497					12															
and switch blocking	21	1,680	1,657	10	13		203	80	23	1,820	1,786	29	5		255	236															
Railroad work—terminal yards	2	164	136	30	2	6			7	213	145	67	1																		
Rattan and willow-ware	8	164	136	30	2	6			7	213	145	67	1																		
Refrigerators	2	120	116	3	1		1		2	177	173	3	1		2																
Rendering	2	4	4						2	6	6																				
Seed packing	3	164	87	66	3	9	1	4	2	252	145	107			2																
Saddlery and harness	11	635	603	28	4		1	1	22	670	634	36			3																
Sandpaper and abrasives									1	63	46	18			1																
Sheet metal work and roofing	40	440	429	7	4		1	1	49	703	677	26	1		2																
Show cases	5	65	63	2			1		6	48	47	1																			
Sign making	4	70	67	3			1		5	76	74	2																			
Slaughtering and meat packing	13	1,542	1,466	43	32	1	23	28	13	1,569	1,517	39	13		39																
Soap	3	67	46	20		2	1	1	4	61	44	17			1																
Stone crushing	1	6	6						1	19	19																				

	14	406	404	1	8	4	1	10	216	216	2	7		1	1
Stone cutting	12	874	870	1	8	5	1	17	1,003	994	3	7		1	1
Stone quarry	3	77	77			1		4	72	72				2	
Stoves and ranges	6	967	967			41	60	5	822	822				1	382
Street railway-shop work	2	115	56	48	8			2	98	53	45			185	
Syrup and jellies	2	42	40	1	1	1		2	60	60					
Tar paper and tar felt	10	123	60	63	11	3	1	11	156	75	80	1			
Tents and awnings	1	251	170	67	11	8		2	204	159	36	8	1	1	1
Tinware	3	24	21	3	3			3	25	21	4				
Tools	6	78	73	1	4	1		6	64	63		1			
Trunks and valises	32	790	777	11	2	5	4	32	1,002	967	34	1		4	3
Upholstering	2	35	34	1				2	35	34	1			22	35
Wagon, carriage and sleigh	23	116	116			20	76	24	77	77				8	
Wall cleaning material	2	46	41	4	1	1		2	31	23	8			1	
Water works	4	107	103		3	1		6	289	256	9	4		3	2
Window shades and shade cloth	17	430	372	28	27	3	1	16	632	622	60	8	2	19	1
Wire and fence work	4	24	23					6	44	43					
Woodenware	8	382	231	143	8	2		11	386	224	158	4		2	2
Wood turning	1	288	288					1	79	79				4	4
Wooden goods	31	4,949	2,019	2,623	123	184	27	44	5,361	2,237	2,332	74	118	40	18
Municipal work	112	3,160	2,156	767	171	66	6	103	2,433	1,734	656	39	4	10	8
Express companies	22	1,832	963	735	131	3	70	18	1,907	1,063	804	39	1	128	365
Retail mercantile establishments	131	5,820	5,180	563	76	1	6	118	6,610	5,418	664	27	1	44	29
Telegraph, telephone and messenger companies	20	367	309	47	1	6	17	12	351	282	63	6		4	9
Wholesale mercantile establishments															
Inspections not specified															
Grand Total	4,244	106,716	86,085	18,711	1,390	580	6,582	3,920	4,513	112,675	92,262	712	281	7,747	4,457

TABLE II.—Number of Wage Earners and Specified Daily and Weekly Working Time in Hours For All Industries and Occupations Enumerated in Table I. For Entire State.

Less than 8	50	60	Less than 48	62	108
8	7,980	7,527	48	5,718	6,809
8½	1,984	3,092	49	17	.....
8¾	73	.....	50	1,128	554
9	21,270	18,964	51	551	624
9½	2,400	3,338	52	945	1,029
10	60,608	66,312	53	3,667	1,368
10½	285	162	54	16,902	15,799
11	2,694	765	55	336	245
12	1,612	854	56	1,205	800
13	29	18	57	2,183	3,714
14	2	2	58	1,508	3,429
15	6	.....	59	7,086	7,888
16	2	.....	60	52,772	57,390
7 to 9	93	.....	62	18	.....
7½ to 9	97	100	63	300	296
8 to 9	1,930	540	64	6	.....
8 to 10	1,539	3,341	65	90	.....
8 to 11	60	.....	66	2,636	621
8 to 12	195	231	67	41	.....
9 to 10	1,145	1,152	68	.....	26
9 to 12	23	90	69	4	43
9 to 13	420	410	72	1,628	859
10 to 11	485	651	78	29	8
10 to 12	1,508	4,887	48 to 54	1,301	615
10 to 13	124	90	48 to 57	.....	87
11 to 12	62	93	48 to 59	160	100
11 to 13	3	6	48 to 60	1,387	3,155
12 to 13	4	10	48 to 66	86	.....
			48 to 72	195	106
			49 to 54	93	81
			50 to 60	594	64
			53 to 60	704	.....
			54 to 60	735	1,152
			54 to 72	23	90
			54 to 78	420	.....
			60 to 66	485	651
			60 to 72	1,508	4,884
			60 to 78	124	90
			66 to 72	62	.....
			66 to 78	3	21
			72 to 78	4	.....
Total.....	106,716	112,675	Total.....	106,716	112,675

FACTORY INSPECTION
IN THE
CITY OF ST. PAUL

FACTORY INSPECTION---CITY OF ST. PAUL, 1905 AND 1906.

Included in the Factory Inspector's reports for 1905 and 1906 of the city of St. Paul, are the suburban towns of South St. Paul, North St. Paul, St. Paul Park, South Park, Gladstone, White Bear and Merriam Park.

In the report for 1905 are enumerated 725 separate inspections and a total of 29,116 wage earners, composed of 21,894 adult males, 6,647 adult females, 362 boys and 213 girls under 16 years of age. Of manufacturing establishments and mechanical trades are reported 628 inspections and 22,613 wage earners, or, 17,187 adult males, 5,044 adult females, 239 boys and 163 girls under 16 years of age.

Of non-manufacturing establishments are reported 97 with 6,503 persons, or, 4,727 men, 1,603 women, 123 boys and 50 girls under 16 years. The relative proportion of one class of wage earners to the others was as follows:

In all industries and trades—

- 1 woman to 3.3 men.
- 1 child to 49.6 adults.
- 1 boy to 60.5 men.
- 1 girl to 31.2 women.

And the 575 children represented 1.97 percent of all wage earners.

In the manufacturing and mechanical trades—

- 1 woman to 3.4 men.
- 1 child to 55.2 adults.
- 1 boy to 71.8 men.
- 1 girl to 30.9 women.

And the 402 children represented 1.78 percent of all wage earners.

In non-manufacturing establishments—

- 1 woman to 2.9 men.
- 1 child to 36.6 adults.
- 1 boy to 38.4 men.
- 1 girl to 32.1 women.

And the 173 children represented 2.66 percent of all wage earners.

Railroad work in shops and round-houses, coach and car repairing, cleaning and equipping furnished employment to the largest number of wage earners in the manufacturing and mechanical trades; they represented 12.3 percent of all persons employed in such trades or 9.6 percent of the total number of wage earners enumerated, or in round numbers 2,793 persons.

The printing trades are next in importance as far as the number of wage earners is concerned, for 2,396 persons have been given which represent 10.6 percent of the wage earners of the manufacturing and mechanical trades, and 8.3 percent of the total wage earners.

The wholesale meat-packing industry of St. Paul furnished work to 1,273 persons, being 5.6 and 4.4 percent respectively of the wage earners employed in manufacturing and mechanical trades and of all wage earners reported.

Machine shops, foundries, and boiler works are enumerated under the heading: Foundry and Machine Shop Products—excluded, however, are all such establishments that manufacture exclusively agricultural machinery and implements. The former had 1,202 wage earners and the latter 376, being 5.3 and 1.6 percent respectively of all persons employed in manufacturing and mechanical trades and 4.1 and 1.3 percent, respectively, of the total number of wage earners.

The fur industry furnished work to 1,150 persons; they represented 5.1 percent of all persons engaged in manufacturing and mechanical pursuits and 3.9 percent of the total wage workers. The relative showing for other industries was as follows:

	No. of Persons	Percent of Wage Earners in Manufacturing and Mechanical Trades	Per cent of all Wage Earners
Boot and shoe manufacturing.....	1,124	5.0	3.9
Clothing and garment manufacturing....	935	4.1	3.2
Planing mills and sash and door manufacturing	663	3.0	2.3
Steam laundries	723	3.2	2.5
Cigar factories	650	2.9	2.2
Railroad freight yards	663	2.8	2.1
Wholesale millinery establishments.....	529	2.3	1.8
Saddlery and harness	453	2.0	1.6
Furniture and cabinet making.....	452	2.0	1.6
Tailoring	447	2.0	1.5
Plumbing and gas and steam fitting.....	403	1.8	1.4
Breweries	368	1.6	1.3
Fibre goods manufacturing	321	1.4	1.1
Dressmaking	296	1.3	1.0
Bakeries	295	1.3	1.0
Tinware factory	251	1.2 less	than 1.0
Confectionery factory	235	1.1 less	than 1.0

Each of the other manufacturing and mechanical trades in the city of St. Paul had employed less than one percent of all wage earners. Of non-manufacturing establishments 54 classed as wholesale mercantile establishments had in their employ 3,150 persons or 10.8 percent of all wage earners reported; in 7 department stores were employed 1,960 persons or 6.7 percent; in 27 retail mercantile establishments 930 persons or 3.2 percent and in telegraph, telephone and messenger companies, 423 persons or 1.5 per cent.

The adult female wage earners represented 22.8 percent of all persons employed; their number in manufacturing establishments and mechanical trades was 5,044, and 1,603 in non-manufacturing establishments or 75.9 and 24.1 percent respectively of all adult female wage earners. The largest number of women employed in manufacturing establishments were reported from clothing and garment factories; their number was 802 or 12.1 percent of all female wage earners or 15.9 percent of those employed in manufacturing establishments. Fur factories had 639 women or 11.1 percent of all women and 12.7 percent of those in manufacturing establishments. The relative number of women in other industries was as follows:

	No. of Women	Per cent of Women in Manufacturing Establishments	Per cent of all Women
Printing trades	611	12.1	9.2
Steam laundries	545	10.8	8.2
Boot and shoe factories	487	9.7	7.3
Wholesale millinery establishments	405	8.0	6.1
Dressmaking establishments	289	5.7	4.3
Cigar factories	212	4.2	3.2
Grass matting factories	205	4.1	3.1
Confectionery factories	132	2.6	2.0
Paper box factories	100	2.0	1.5
Tinware factory	67	1.3	1.0

In all other trades where women were employed their number was less than one per cent of all adult female wage earners. In non-manufacturing establishments the largest number of women were found to be employed in department stores, their number represented 15.2 per cent of all women wage earners or 63.0 percent of all those employed in non-manufacturing establishments, or in positive numbers 1,010 women. Wholesale mercantile establishments had 316 women in their employ or 4.8 percent of all women and 19.7 percent of those employed in non-manufacturing establishments.

There were employed 147 women in telegraph, telephone and messenger companies and 130 women in retail mercantile establishments; they represented respectively 2.2 and 1.9 percent of all women wage earners and 9.2 and 8.1 percent respectively of all adult females employed in non-manufacturing establishments.

The 575 children under 16 years of age reported for the year 1905 were distributed as follows: 402 children, or, 239 boys and 163 girls, in manufacturing and mechanical trades and 173 children, or, 123 boys and 50 girls in non-manufacturing establishments.

The largest number of children employed in manufacturing and mechanical trades were found in printing establishments, their number was 53, or, 31 boys and 22 girls and they represented 9.2 percent of all children. Boot and shoe factories employed 43 children, or, 7.5 percent. Clothing factories 27 children, or, 4.7 percent. In wholesale meat-packing establishments 4.2 percent, or, 24 children were employed, and cigar factories had 23 children, or, 4.0 percent working. In planing mills and sash and door factories, 22 boys, or, 3.8 percent were found, and in paper box factories 18 children, or, 3.1 percent and the same number were employed in steam laundries. In the tinware factory, 14 children, or, 2.6 percent were kept busy and 12 boys, or, 2.1 percent served as messengers and errand boys in railroad freight offices. In the manufacturing of syrup and jelly 11 children, or, 2.0 percent were employed, and 10 children, or, 1.7 percent in bottling of beer and soft drinks. Wholesale millineries had 9 children, or, 1.6 percent, confectionery factories 8 children, or, 1.4 percent and in the manufacture of grass matting and in dressmaking each 7 children, or 1.2 percent of all children were found. Besides the trades already enumerated there were 42 others that had children in their employ but in each trade their number was less than one percent of the total number of children.

In table 2 is given the number of establishments with number of wage earners in specified industries together with their daily and weekly working time in hours, and table 3 shows the total number of wage earners in all specified industries and occupations grouped together according to their daily and weekly hours of working time.

For 13,879 persons, or, 47.7 percent of all wage earners, a daily work-day of 10 hours' duration is reported; 593 persons, or, a fraction over 2 percent worked 9½ hours daily, 7,676 persons, or, 26.4 percent had a 9-hour work-day, 1,749 persons, or, 6 percent 8½ hours, and 2,355 persons, or, 8.1 percent had a regular work-day of 8 hours. Of wage earners that had to work more than 10 hours each day, the report shows 4 persons with 11 hours each day and

162 persons with 12 hours. A daily work-day from 8—9 hours was reported for 1,039 persons, or, 3.6 percent of all wage earners; 8—10 hours for 674 persons, or, 2.2 percent; 9—10 hours for 625 persons, or, 2.1 percent and 274 persons have been enumerated with a daily work-day of from 10—12 hours; 60 of from 8—11 hours, 23 of from 9—12 hours and 3 from 11—13 hours. There is a great variation in the weekly working time. Ten persons worked less than 48 hours each week; 1,590 persons, or, 5.5 percent had to work 48 hours each week, 7 percent, or, 2,029 persons worked 53 hours and 5,809, or, 19.9 percent 54 hours; 4,351 persons, or, 14.9 percent 59 hours and 8,825 persons, or, 30.3 percent 60 hours. For the remaining wage earners a weekly working time has been shown embracing all the hours from 48 to 78.

The report shows that 686 persons, or, 2.4 percent of all wage earners were regular night workers and principally employed in bakeries, electric light and heating plants, gas works, printing establishments, in railroad round-houses, street railway shops and in telegraph and telephone offices. There also have been given 921 regular Sunday workers which in their largest number have been employed in the same places and work as have been the night workers.

The report on factory inspection work in 1906 in the city of St. Paul and suburbs embraces the seven first months of the calendar year, from January to July 31st. This being the end of the State's fiscal year. It resulted in 754 inspections embracing manufacturing establishments, mechanical workshops, hand trades and a number of retail and wholesale mercantile establishments and telegraph, telephone and messenger service offices. All of the latter, principally had as object for inspection, employment of children, ventilation, sanitation and fire protection. The total number of wage earners ascertained in the course of these inspections numbered 29,718 in all or 22,377 adult males, 6,974 adult females, and 407 children under 16 years of age; or 259 boys and 148 girls. Child labor in 1906, it would appear at first glance, had been materially reduced since 1905 when 575 children were reported. However, it must be remembered that the data for 1906 cover only seven months of the year and does not justify comparison.

Of the total number of wage earners 78.8 percent or 23,415 were employed in manufacturing and mechanical industries and in hand trades, while 6,303 persons or 21.2 percent of the total were engaged in non-manufacturing pursuits.

As in the preceding year, railroad work of shop construction, general repair work and work in round-houses furnished employment to the largest percent of all wage earners, their number represented 11.4 per cent of those shown for manufacturing and mechanical industries and hand trades, which hereafter in this review will be designated by the term: manufacturing industries.

Second place as to number of wage earners in 1906 was maintained by the combined printing and publishing industry, which embraces book and job work, and publishing and printing of newspapers and periodicals. A total of 2,245 wage earners are given, which for the same number of establishments as in 1905 shows a decrease of 6.2 percent. This decrease probably is due to the prolonged strike in the job printing trade in the present year. The wage earners in the printing trade represented 9.6 percent of all wage earners of the manufacturing industries in 1906, and 10.6 percent in 1905.

Third in importance on account of number of wage earners in 1906 have been machine shop and allied trades, as blacksmithing, boilermaking and foundry work. There were reported 1,992 wage earners under the heading: Foundry and Machine Shop Products, and 177 under: Agricultural Machinery and Implements, together these employ 2,169 persons, or 9.3 per cent of the total wage earners of the manufacturing industries.

Manufacturing of clothing and garments by factory process shows an increase of 44.1 percent in wage earners, and that industry ranked fourth in importance to wage earners numbers, which formed 5.7 percent of all wage workers in the manufacturing industries.

The wholesale meat-packing industry furnished work to 1,306 persons, as against 1,273 in 1905 and took fifth place with 5.6 percent of the total industrial wage earners.

Boots and shoe manufacturing showed an increase in business by employing 12.7 percent more wage earners in 1906 than in 1905, and their aggregate represented 5.5 percent of the total.

Each of the following industries employed more than one percent of all wage earners in manufacturing industries:

	Per cent.
Fur goods	3.6
Laundry work	3.2
Cigar factories	2.8
Planing mills and sash and door factories.....	2.6
Tailoring establishments	2.0
Furniture factories	1.9
Plumbing and gas and steam fitting.....	1.8
Millinery establishments, wholesale	1.7
Saddlery and harness	1.6
Brewing	1.5
Fibre goods	1.4
Bakeries	1.3
Dressmaking	1.3
Sheet metal working and tinsmithing.....	1.0

The report shows a total of 6,974 adult female wage earners. Of these 5,265 were employed in manufacturing industries and 1,709 in non-manufacturing establishments. The largest percent of these employed in manufacturing industries was contributed by clothing manufacturing, with 21.6 percent and by the printing trades, with 10.8 percent; laundry work employed 10.6 percent and the manufacture of fur goods 9.1 percent. In boot and shoe manufacturing 7.6 percent of all women wage earners were employed and 6.3 percent in millinery and 6.0 in dressmaking establishments. Cigar factories had 3.7 percent, hat and cap factories 2.0 percent. Cracker factories and paper box factories 1.9 percent each, confectionery factories 1.6 percent, bookbinding and blankbook-making 1.4 percent, and broom manufacturing and fibre goods manufacturing 1.1 percent each.

Of the 407 children under 16 years of age reported for the seven months of 1906, there were 162 employed in non-manufacturing establishments and 245 in establishments engaged in manufacturing pursuits or mechanical and hand trades. The largest percent of all children were employed in the printing trades, being 18.8 percent and 11.0 percent in boot and shoe factories. In clothing factories were found 5.3 percent; 4.5 percent respectively in sash and door factories and cigar factories; 4.3 percent in confectioneries and the same number and percent in slaughtering and meat-packing; 3.7 percent, respectively, in tinware factories and in laundry work, 3.2 percent in cracker factories and in millinery establishments the same percent. Paper box factories and broom factories each had 2.4 percent and brush factories had 2.0 percent. In all other industries in which child labor was made use of the amount was below one percent of the total child labor in manufacturing industries.

Record has been taken in 1906 of regular night work and regular Sunday work. While the corresponding numbers between 1906 and 1905 have changed a little, the change is not of sufficient importance to show variation.

TABLE I.—CITY OF ST. PAUL.*

* Includes South St. Paul, North St. Paul, St. Paul Park, South Park, Gladstone, White Bear and Merriam Park.

INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults	Male	Female	Under 16 Years	Total Number	Adults	Male	Female	Under 16 Years	Total Number	Adults	Male	Female	Under 16 Years	Total Number	Adults	Male	Female	Under 16 Years
Agricultural machinery and im-	8	376	368	9	1	177	170	6	1	.....	7	177	170	6	1	.....	.....	.....	.....	.....
plements.....	1	5	4	1	.....	1	5	4	1	.....	1	5	4	1	.....	1	.....	.....	.....	.....
Artificial limbs and trusses.....	4	25	27	.....	1	3	26	25	1	.....	3	26	25	1	.....	3	.....	.....	.....	.....
Automobile and bicycle repairing	4	13	13	.....	.....	6	34	34	.....	.....	6	34	34	.....	.....	6	.....	.....	.....	.....
Boat building.....	4	13	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bookbinding and blankbook	8	84	37	43	4	9	139	62	72	4	9	139	62	72	4	1	.....	.....	.....	.....
making.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boots and shoes, custom work	1	10	9	1	.....	1	10	9	1	.....	1	10	9	1	.....	1	.....	.....	.....	.....
and repairing.....	3	1,121	616	465	21	4	1,267	838	402	16	4	1,267	838	402	16	.....	.....	.....	.....	.....
Boots and shoes, factory product	2	157	135	12	4	11	179	169	18	1	11	179	169	18	1	.....	.....	.....	.....	.....
Bottling, beer and soft drinks...	2	167	135	12	4	3	165	135	28	2	3	165	135	28	2	.....	.....	.....	.....	.....
Boxes—beer.....	2	181	154	27	4	4	181	154	27	4	4	181	154	27	4	.....	.....	.....	.....	.....
Boxes—cigar.....	2	181	154	27	4	4	181	154	27	4	4	181	154	27	4	.....	.....	.....	.....	.....
Boxes—paper and envelopes.....	2	181	154	27	4	4	181	154	27	4	4	181	154	27	4	.....	.....	.....	.....	.....
Boxes—wood, packing.....	2	181	154	27	4	4	181	154	27	4	4	181	154	27	4	.....	.....	.....	.....	.....
Brass casting and brass finishing	40	205	251	40	4	50	309	259	49	1	50	309	259	49	1	.....	.....	.....	.....	.....
Bread and other bakery products	2	368	326	42	.....	4	368	326	42	.....	4	368	326	42	.....	.....	.....	.....	.....	.....
Brewing.....	2	165	100	2	.....	3	165	100	2	.....	3	165	100	2	.....	.....	.....	.....	.....	.....
Brick and tile.....	2	165	100	2	.....	3	165	100	2	.....	3	165	100	2	.....	.....	.....	.....	.....	.....
Brooms.....	2	165	100	2	.....	3	165	100	2	.....	3	165	100	2	.....	.....	.....	.....	.....	.....
Burners.....	1	35	31	4	.....	1	35	31	4	.....	1	35	31	4	.....	.....	.....	.....	.....	.....
Burlap caskets and coffins.....	1	45	37	8	.....	1	45	37	8	.....	1	45	37	8	.....	.....	.....	.....	.....	.....
Carpet cleaning.....	2	6	6	.....	.....	2	6	6	.....	.....	2	6	6	.....	.....	2	.....	.....	.....	.....
Carpet cleaning.....	1	11	8	3	.....	2	11	8	3	.....	2	11	8	3	.....	.....	.....	.....	.....	.....
Carpet cleaning.....	1	17	7	10	.....	1	17	7	10	.....	1	17	7	10	.....	.....	.....	.....	.....	.....
Cement, lime and plaster.....	1	118	117	1	.....	1	118	117	1	.....	1	118	117	1	.....	.....	.....	.....	.....	.....
Cement stone and sidewalk tile..	5	118	117	1	.....	1	118	117	1	.....	1	118	117	1	.....	.....	.....	.....	.....	.....
Chemicals.....	20	624	416	212	13	28	653	448	193	4	28	653	448	193	4	.....	.....	.....	.....	.....
Clothing, factory products.....	16	935	127	781	6	18	1,347	197	1,137	2	18	1,347	197	1,137	2	.....	.....	.....	.....	.....

Clothing—men's, custom work and repairing.....	26	447	418	27	2	7				27	473	432	38	3				
Clothing—women's, dressmaking.....	13	236		269						18	306		301		4			
Coffee roasting, extracts and spices.....	3	44	85	9						4	89	50	38		1			
Contracting—asphalt paving.....	8	236	199	128	1	7				8	222	124	87		8			
Coppers.....	1	200	63		1		6			3	115	112		3		1		
Coppersmithing.....	2	63	18		1		1			2	64	64				1		
Crackers and cookies.....	1	18	13							1	18	18						
Crackers and products—butter.....	1	93	63	36	1	3	- 1			2	184	77	99	1	7			
Dyeing and clothes cleaning.....	3	202	189	41	2		1			6	169	137	32			2		15
Electric machinery and construction.....	3	28	15	12		1				3	31	19	12					
Electric light, heat and power—buildings.....	3	68	63	4	1					3	91	85	6					
Electric light, heat and power—public service.....	28	108	107		1		42			27	107	107				36		42
Electric power—street car service.....	3	57	57				12			4	40	40				12		34
Ice.....	3	19	19				8			2	5	5				2		2
Electroplating.....	3	108	96	12			1			4	34	34						
Electrotyping and stereotyping.....	3	33	30	2	1		2			3	41	37	2	2		2		
Engraving.....	3	54	48	5	1					5	90	66	22		2			
Fibre goods.....	4	321	109	235	3	7	3			3	821	264	57			12		12
Flouring and grist mill products.....	2	42	39	3						6	42	39	3			3		
Food preparations.....	6	46	29	17			2			6	100	48	51		1			
Foundry and machine shop products.....	4																	
Fur goods.....	43	1,202	1,188	11	3		15			43	1,992	1,972	17	8		75		10
Fur dressing and dyeing.....	10	1,150	507	638	3	2	2			11	941	357	480	3	1	2		2
Furniture and cabinet making.....	3	86	83		3		4			3	102	99				3		1
Gas, illuminating.....	12	452	442	7	3					14	461	452	8	1		3		2
Grain cleaning and storing.....	1	84	83		1		35			2	144	138	5	1		18		20
Grinding, cutlery and edge tools.....	1	7	7				1			1	10	10				1		1
Hand stamps, seals and stencils.....	1	12	10	2						1	2	2						
Hats and caps.....	3	34	27	6	1	3				6	31	28	2	1				
Iron beds and wire springs.....	6	80	47	29	1					1	149	47	102					
Jewelry and optical goods.....	1	7	7							2	39	35	4					
Junk sorting and packing.....	3	43	33	9	1					3	21	19	2					
Laundry work.....	4	65	44	21			2			4	80	51	29			1		5
Lead goods—lead pipes.....	22	723	171	534	4	14	3			23	749	183	557	1	8	3		49
Leather tanning.....	1	6	6				6			1	6	6						
Linseed oil and linseed cakes.....	2	32	32	1			2			1	14	12		2		1		
Locksmithing and gunsmithing.....	2	125	124				13			2	110	110				40		6
Lumber, planing mill products, inc. sash, door and blind mfr.....	1	4																
Malt.....	9	663	638	3	22		8			9	603	589	2	12		5		3
Malt and tile work.....	2	17	17				3			2	18	18				3		15
Mattresses and bedding.....	1	35	35				1			2	55	55				9		
Medicines and drugs.....	3	52	41	11						1	38	30	8					
Millinery.....	2	16	7							2	21	10		1				
	3	529	115	405	1	6				8	412	74	330	1	7			1

TABLE 1.—CITY OF ST. PAUL.*—Continued.
 * Includes South St. Paul, North St. Paul, St. Paul Park, South Park, Gladstone, White Bear and Merriam Park.

INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years
Monuments and tombstones.....	1	9	9	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Musical instruments.....	2	77	74	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Paints and varnish.....	4	88	78	10	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Pickles and preserves.....	2	40	33	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Plumbing and gas and steam fitting.....	22	402	395	6	1	23	434	409	24	1	23	434	409	24	1	23	434	409	24	1
Printing and publishing.....	72	2,396	1,751	592	31	160	124	116	276	22	72	2,245	1,637	568	38	10	49	49	49	40
Railroad work—shops and round- houses.....	18	2,793	2,787	3	3	116	276	116	276	18	18	2,665	2,660	5	139	411	139	411	139	411
Railroad work—switch blocking and track repairing.....	22	214	214	.....	.....	5	14	5	14	24	24	273	273	.....	.....	1	1	1	1	22
Railroad work—terminal yards, freight transferring.....	2	633	617	4	12	13	15	13	15	2	2	494	479	10	5	32	32	32	32	21
Rattan and willowware.....	2	30	21	5	4	4	4	4	4	2	2	19	17	2	.....	.....	.....	.....	.....	.....
Refrigerators.....	2	120	116	3	1	1	1	1	1	2	2	177	173	3	1	2	2	2	2	1
Rendering.....	1	3	3	.....	.....	.....	.....	.....	.....	1	1	3	3	.....	.....	.....	.....	.....	.....	.....
Seed packing.....	1	61	42	15	1	3	3	1	3	1	1	138	90	48	.....	.....	.....	.....	.....	.....
Saddlery and harness.....	5	463	436	15	2	1	1	1	1	6	6	379	360	19	.....	.....	.....	.....	.....	.....
Sheet metal work and roofing.....	8	176	168	4	4	1	1	1	1	8	8	240	234	6	.....	.....	.....	.....	.....	.....
Show cases.....	1	21	20	1	1	1	1	1	1	1	1	21	20	1	.....	.....	.....	.....	.....	.....
Slaughtering and meat packing— wholesale.....	6	1,273	1,210	39	23	1	19	1	19	22	6	1,306	1,258	37	11	37	37	37	37	30
Soap.....	2	64	42	20	1	1	1	1	1	2	2	63	36	17	.....	.....	.....	.....	.....	.....
Stone cutting.....	6	196	195	1	.....	.....	.....	.....	.....	4	4	149	149	.....	.....	1	1	1	1	1

[illegible]

TABLE II. Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I.

CITY OF ST. PAUL.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Agricultural machinery and implements	1	132	10	59	7	177	10	60
Artificial limbs	1	5	9½	57	1	5	9	54
Automobile and bicycle repairing	1	2	9	54	3	26	10	60
Bookbinding and blankbook making	3	26	10	60	3	57	9	53
Boat building	4	28	9	53	5	65	9	54
Boots and shoes, custom work and repairing	4	56	9	54	1	17	8	48
Boots and shoes, factory product	2	6	8	48	1	4	8	48
Bottling	2	7	10	60	1	25	10	60
Boxes, cigar	1	10	10	60	1	5	9	54
Boxes, paper and envelopes..	1	10	10	60	1	10	9	54
Boxes, wood, packing	2	748	10	59	3	892	10	59
Brass casting and brass finishing	1	376	9-10	50-59	1	375	10	60
Bread and other bakery products	3	35	8	48	4	33	8	48
Brewing	1	87	9	54	2	88	9	54
Boxes, cigar	3	29	8-9	48-53	5	58	10	60
Boxes, paper and envelopes..	1	6	8	48	1	11	9	50
Boxes, wood, packing	1	11	8	48	2	31	10	60
Brass casting and brass finishing	1	12	10	60	3	64	9	50-54
Bread and other bakery products	1	22	9-10	54-60	1	102	10	59
Brewing	1	47	9	50	2	29	10	59
Boxes, paper and envelopes..	1	110	9	52	2	82	10	60
Boxes, wood, packing	1	7	10	59	1	4	9	53
Brass casting and brass finishing	1	5	9	54	1	95	10	60
Bread and other bakery products	2	96	10	60	1	4	9	53
Brewing	1	4	10	59	1	96	10	60
Boxes, paper and envelopes..	1	106	10	60	5	13	8	48
Boxes, wood, packing	3	14	8	48	5	16	9	54
Brass casting and brass finishing	40	250	10	60	39	279	10	60
Bread and other bakery products	1	3	12	72	1	1	12	72
Brewing	1	28	8-10	48-60	1	61	8	48
Boxes, paper and envelopes..	1	100	8	48	1	9	9	54
Boxes, wood, packing	1	25	10	60	2	294	8-10	48-60
Brass casting and brass finishing	1	229	8-9	48-54	2	294	8-10	48-60
Bread and other bakery products	1	14	8-10	48-60	2	128	10	60
Brewing	2	106	10	60	1	82	9	54
Boxes, paper and envelopes..	1	15	9	50	1	8	10	55
Boxes, wood, packing	1	7	10	60	1	9	10	60
Brass casting and brass finishing	1	26	9½	57	1	36	10	55
Bread and other bakery products	1	35	10	59	1	38	10	59
Brewing	1	45	10	60	1	3	9	54
Boxes, paper and envelopes..	1	4	10	60	1	3	10	60
Boxes, wood, packing	1	2	12	72	1	3	9½	57
Brass casting and brass finishing	2	11	10	60	1	4	10	60
Bread and other bakery products	1	7	10	60	1	4	10	60
Brewing	1	30	10	59	1	5	9	54
Boxes, paper and envelopes..	3	76	10	60	4	83	10	60
Boxes, wood, packing	1	12	9-10	53-60	1	4	10	60
Brass casting and brass finishing	1	1	9	53	1	4	10	60
Bread and other bakery products	1	14	10	60	1	4	10	60

TABLE II—CITY OF ST. PAUL—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Cigars	1	7	8	45	1	339	8	48
	1	3	8	47	1	254	9	54
	26	433	8	48	26	339	8	48
	1	203	9½	54	1	10	10	56
	1	4	9½	57	1	23	8	48
Clothing, factory product.....	2	27	8	48	1	23	8	48
	1	18	8½	51	1	263	9	53
	3	253	9	53	7	631	9	54
	8	558	9	54	7	430	9½	57
	1	20	9½	57	3	430	9½	57
	1	59	10	59	1	6	9½	57
Clothing, men's, custom work and repairing	1	16	8	48	1	467	10	60
	3	46	9	54	26	467	10	60
	22	385	10	60	1	269	9	54
Clothing, women's, dress-making	11	221	9	54	15	36	9½	57
	2	75	9½	57	1	36	9½	57
Coffee roasting, extracts and spices	1	19	9	54	1	19	8	48
	1	15	10	55	3	70	10	57
	1	10	10	58	1	18	9	54
Confectionery	1	5	9	52	2	161	10	59
	1	36	9	54	6	71	10	60
	1	3	9½	57	1	60	10	59
	2	83	10	59	1	24	10	60
	3	109	10	60	1	91	8	48
Contracting—asphalt paving..	1	200	10	60	2	24	10	60
Cooperage	1	10	9	53	1	9	9	54
	1	53	9	54	1	55	10	60
Coppersmithing	1	18	9	54	1	18	9	54
Creamery products	1	110	9	54	6	169	10	60
	2	92	10	60	1	124	10	57
Crackers and cookies	1	93	9	54	1	60	10	59
Dyeing and clothes cleaning.	1	12	9½	57	1	13	9	54
	2	16	10	60	2	18	10	60
Electric machinery, constructions and wiring.....	1	14	8	48	2	79	8	48
	1	14	8½	50	1	12	8½	50
	1	40	9	54	1	12	8½	50
Electric light, heat and power—building	18	68	12	72	4	14	10	70
	5	18	10	60	2	7	11	66
	1	4	11	66	3	3	11	77
	1	2	8-11	48-66	15	62	12	84
	1	6	8-10	48-60	2	9	10-12	70-84
	1	7	10-12	60-72	1	4	10-13	60-78
	1	3	11-13	66-78	1	8	11-12	77-84
Electric light, heat and power—public service	1	23	9-12	54-72	4	40	12	84
	1	4	10-12	60-72	1	30	12	72
	1	30	12	72	1	30	12	72
Electric power—street car service	3	19	12	72	2	5	12	84
Electroplating	2	11	8	48	3	16	8	48
	1	97	10	60	1	18	9	54
Electrotyping & stereotyping	1	12	8	48	1	13	8	48
	1	6	9	53	2	28	9	54
	1	15	9	54	1	15	9	54
Engraving	2	23	8	48	4	85	8	48
	2	31	9	50	1	5	9	54
Fibre goods	2	321	10	60	3	321	10	60

TABLE II—CITY OF ST. PAUL—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Flouring and grist mill products	1	5	9	54	6	42	10	60
Food preparations	5	37	10	60	3	58	9	54
Foundry and machine shop products	3	24	10	60	3	42	10	60
	2	15	8	48	1	4	8	48
	1	48	9	50	1	2	9	53
	2	33	9	53	10	171	9	54
	13	187	9	54	1	24	9½	57
	2	5	9½	57	1	26	10	58
	3	447	10	58	11	1,245	10	59
	1	4	10	54	18	520	10	60
	1	10	10	57				
	5	80	10	59				
	12	158	10	60				
	1	215	9-10	54-59				
Fur goods	1	300	8½	51	2	136	9½	52
	1	141	9	50	6	395	9	53
	6	652	9	53	3	310	9	54
	2	57	9	54				
Fur dressing and dyeing.....	3	86	10	60	3	102	10	60
Furniture and cabinetmaking	7	161	9	54	7	93	9	54
	4	243	10	60	2	66	10	59
	1	48	8-10	48-60	5	302	10	60
Gas, illuminating	1	84	10-12	60-72	1	143	10	60
					1	1	9	53
Grain cleaning and storing...	1	7	10	60	1	10	10	59
Grinding cutlery & edge tools	1	12	10	59	1	2	9	54
Hand stamps, seals & stencils	2	31	9	53	3	31	9	53
	1	3	9	54				
Hats and caps	1	35	9	53	1	93	9	50
	5	45	9	54	2	28	9	53
					3	28	9	54
Iron beds and springs.....	1	7	10	60	1	15	9	54
					1	24	10	60
Jewelry and optical goods....	2	19	9	53	1	4	8½	48
	1	24	9	54	1	15	9	54
Junk sorting and packing....	4	65	10	60	4	80	10	60
Laundry work	2	43	8	48	3	45	8	48
	2	17	9	54	2	20	9	54
	1	7	8-9	48-54	1	32	9½	57
	1	54	9½	55	1	15	10	52
	2	51	9½	50	3	75	10	55
	1	24	9½	57	10	512	10	60
	4	151	10	60	1	9	10	65
	1	33	10	50	1	6	11	66
	1	80	10	57	1	35	12	72
	1	5	10	59				
	5	218	10	50-60				
	1	40	12	72				
Lead goods	1	6	10	60	1	6	10	60
Leather tanning	1	10	10	59	1	14	10	60
	1	22	10-12	60-72				
Linseed oil and linseed cakes	2	125	10-12	60-72	1	75	10	60
					1	75	12	84
Locksmithing & gunsmithing	1	4	10	60				
Lumber, planing mill products, including sash, door and blind mfg.	1	50	10	59	3	285	10	59
	8	613	10	60	6	318	10	60
Malting	2	17	9	54	2	18	9	54
Marble and tile work.....	1	35	10	59	1	55	10	59
Mattresses and bedding.....	2	39	10	59	1	22	10	59
	1	13	10	60	1	16	8	60
Medicines and drugs.....	2	16	9	53	1	10	8	48
					1	11	9	54

TABLE II—CITY OF ST. PAUL—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Millinery	1	274	9	53	1	70	8	48
	2	255	9	54	2	228	9	53
Monuments and tombstones..	1	9	8-10	48-60	5	114	9	54
Musical instruments	1	8	9	54	2	26	8	48
	1	69	10	60	1	22	9	54
Paints and varnish.....	1	32	8	48	1	76	10	59
	1	5	9	53	3	37	9	54
	1	44	10	55	1	7	10	59
	1	7	10	60	1	33	10	60
Pickles and preserves.....	2	40	10	60	1	17	9	54
Plumbing and gas and steam fitting	19	256	8	48	20	371	8	48
	2	116	8-9	48-54	1	17	9	54
	1	30	8-10	48-60	2	46	10	60
Printing	4	220	8	48	25	490	8	48
	1	19	8½	48	1	4	8½	50
	2	17	8½	51	2	191	8½	51
	1	30	9	52	1	6	9	50
	28	313	9	53	9	141	9	53
	27	838	9	54	30	1,403	9	54
	3	13	10	60	4	10	10	60
	1	2	10	59				
	1	89	7-10	42-60				
	3	655	8-9	48-54				
	1	200	8-10	48-60				
Railroad work—shop & round-house work	8	2,501	10	59	7	2,175	10	59
	9	263	10	60	10	423	10	60
	1	29	10-12	60-72	1	67	10-11	60-66
Railroad work—switch block-ing and track repairing.....	22	214	10	60	24	273	10	60
Railroad work—terminal y'ds.	1	496	9	54				
	1	137	10	60	2	494	10	60
Rattan and willow-ware.....	1	24	9	53	1	12	9	53
	1	6	10	59	1	7	10	59
Refrigerators	2	120	10	60	1	24	10	59
					1	153	10	60
Rendering	1	3	10	60	1	3	10	60
Seed packing	1	61	9	54	1	138	9	54
Saddlery and harness.....	1	25	10	59	6	379	10	59
	4	428	10	60				
Sheet metal working.....	6	158	8	48	8	240	8	48
	1	14	9	54				
	1	4	9½	57				
Show cases	1	21	10	60	1	21	10	60
Slaughtering and meat pack-ing—wholesale	6	1,273	10	60	6	1,306	10	60
Soap	2	64	10	60	2	53	10	60
Stone cutting	3	90	8	48				
	1	40	10	59	1	18	10	60
Stoves and ranges.....	2	66	8-10	48-60	3	131	8-10	48-60
	2	27	9	53	1	13	8	48
Street railway—shop work...					1	18	9	54
	2	35	10	60	2	41	10	60-70
Syrup and jellies.....	1	22	10	57				
	1	93	10	59	2	98	10	59
Tar paper and tar felt.....	1	24	10	60	1	35	10	60
Tents and awnings.....	2	24	9	54	1	17	9	53
	1	9	10	59	1	3	9½	57
					2	18	10	59
Tinware, factory product.....	1	251	10	59	1	12	9½	57
					1	192	10	59
Trunks and valises.....	2	21	10	59	1	8	10	59
	1	9	10	60	1	5	10	60

TABLE II—CITY OF ST. PAUL—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Upholstering	1	18	9	53	3	25	9	54
	1	7	9	54				
	1	5	10	59				
Wagons, carriages and sleighs	1	15	10	59	5	158	10	59
	8	71	10	60				
Wall cleaning material and paste	1	12	10	59	1	8	10	60
Window shades & shade cloth	1	33	10	60				
Wire and fence work	2	17	10	59	1	6	9	54
	1	80	10	60	1	12	10	59
					1	65	10	60
Woodenware	2	20	9	53	1	9	9	54
	1	5	9	54	1	5	10	60
Wood turning and carving	2	6	10	60				
Department stores	1	222	8	48	9	2,130	8½	58
	1	439	8	52				
	4	1,276	8½	54				
	1	23	9	58				
Retail mercantile establishments	2	22	8	48				
	1	11	8½	53				
	1	28	9	53				
	5	86	9	54				
	2	8	9	57				
	14	713	9	58	25	583	9	58
	1	4	9½	60	2	70	10	60
	1	58	8-11	48-66				
Telegraph, telephone and messenger companies	1	26	7½-9	48-63	1	164	8	48
	2	206	9	54	2	270	9	54
	1	8	9	58	3	136	10	60
	1	184	8-10	48-60				
Wholesale mercantile establishments	4	108	8	48	20	1,520	9	54
	2	85	8½	51	5	561	9½	57
	3	312	9	50	1	20	10	55
	2	125	9	53	3	388	10	57
	3	325	9	54	1	20	10	58
	1	49	9½	56	1	75	10	59
	1	54	9½	57	6	291	10	60
	38	2,092	10	60	1	75	8-10	48-58
	1	8	8	56	1	1	12	84
Municipal work—water works	1	1	10	60	2	11	10-12	70-84
	1	3	10-12	60-72				
	1	28	9	54	1	2	8	48
Inspections not specified					1	29	9	54
					1	9	10	60
					2	10	12	84

TABLE III.—Number of Wage Earners and Specified Daily and Weekly Working Time in Hours for All Industries and Vocations Enumerated in Table I.

CITY OF ST. PAUL.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	.....	.....	Less than 48	10	.....
8	2,355	2,278	48	1,590	2,282
8½	1,749	2,341	50	632	126
9	7,676	7,835	51	420	191
9½	593	1,251	52	584	151
10	13,879	15,169	53	2,029	1,179
10½	.....	.....	54	5,809	5,911
11	4	16	55	113	139
11½	.....	.....	56	528	36
12	162	229	57	974	1,689
Over 12	.....	.....	58	131	2,733
8 and 9	1,039	.....	59	4,351	6,184
8 and 10	674	500	60	8,825	8,192
9 and 10	625	.....	66	4	36
10 and 12	274	91	72	162	232
8 and 11	60	.....	48 to 54	1,102	75
9 and 12	23	.....	48 to 60	585	425
11 and 12	3	8	48 to 66	86	.....
			50 to 60	606	64
			54 to 59	215	.....
			54 to 72	23	.....
			60 to 72	274	58
			66 to 78	3	15
Total.....	29,116	29,718	Total.....	29,116	29,718

FACTORY INSPECTION

IN THE

CITY OF MINNEAPOLIS

FACTORY INSPECTION

CITY OF MINNEAPOLIS, 1905 AND 1906

The inspection records of the city of Minneapolis for the year 1905 show 998 inspections of factories, workshops and other places where labor is employed, with 38,236 wage earners. Included in these reports are the inspections in the suburban establishments of Columbia Heights, Hopkins, St. Anthony Park, St. Louis Park and Wayzata.

The total number of wage earners as given were composed of 28,784 adult males, 8,619 adult females and 833 children under 16 years of age or 616 boys and 217 girls.

Separating the wage earners of non-manufacturing establishments from those reported for manufacturing and mechanical trades it will be found that of the latter the largest number of persons were employed in the flour and grist milling industry; they represented 6.5 percent of the total of 2,473 persons. Of this number **98 percent were adult males, 1.9 percent adult females and 0.1 percent boys under 16 years of age.** In the printing and allied trades, book binding, electrotyping, stereotyping, engraving, and lithographing, 2,250 wage earners were found, representing 5.9 percent of all wage earners and composed of 80.4 percent of adult males, 17.8 per cent adult females and 1.8 per cent of children.

The lumber and woodworking industries of Minneapolis have been enumerated in different classes, viz., planing mills and sash, door and blind factories with 1,950 employes; saw mills 1,721 employes, wooden box factories 347 persons, furniture and cabinet factories 960 persons, cooper shops 466 persons and woodenware factories 331 persons or together for the woodworking industry 5,775 persons. They represented in their aggregate 15.1 per cent of all wage earners and 95.9 per cent of their number were adult males, 1.5 per cent adult females and 2.6 per cent children.

Railroad work in shops and roundhouses furnished employment to 1,694 persons which represented 4.4 per cent of all wage earners and with the exception of two women and four boys, were adult males.

In clothing and garment factories 1,215 persons or 3.2 per cent of all wage earners were at work; adult females made 84.4 per cent of their total number, adult males 15.5 per cent and in addition to this were .01 percent children employed.

The iron trades have been enumerated as follows:

Structural iron and bridge work 1,076 persons.

Builders of agricultural machinery and implements, 971 persons.

In foundries, boiler works and machine shops, 1,007 persons, making a total of 3,054 persons or 8 per cent of all wage earners.

Laundry work in the city of Minneapolis furnished remunerative employment to 1,045 persons or 2.7 per cent of all wage earners and they were composed of 75.6 per cent of adult females, 23.3 per cent of adult males and 11 children or 1.1 per cent.

The hosiery and knit goods industry of Minneapolis is represented by four establishments with 728 wage earners or 70 men, 653 women and 5 children. Their aggregate represented 1.9 per cent of all wage earners and of their own class adult females were 89.7 per cent, while adult males were 9.6 per cent and children 0.7 per cent.

Work in railroad terminal yards required 739 pairs of strong arms, they made 1.9 per cent of the total wage earners; in the manufacture of cereal food products and stock food, 705 persons or 1.8 per cent found work, 36.4 per cent of which were adult males and 61.7 per cent adult females and 1.9 per cent children.

In the street railway shops were employed 688 persons or 1.7 per cent of all wage workers; in boot and shoe manufacturing 566 persons or 1.5 per cent of which 64.5 per cent were adult males, 33.9 per cent adult females and 1.6 per cent children. From confectioneries were reported 517 wage earners or 1.3 per cent composed of 38.9 per cent adult males 59.9 per cent adult females and 1.2 per cent children.

In track repairing and switch blocking work were engaged 515 adult males; grain elevator work 510 adult males and in bag factories 511 persons, each class of which were a fraction less than 1.3 per cent of all wage earners. In cracker factories were 485 persons or 1.2 per cent engaged at work and 386 persons or 1.1 per cent in the manufacture of cigars. In each of the other industries the total number of wage earners was less than one per cent of all wage earners reported for Minneapolis. The report shows 14 department stores with 2,542 employes which composed 6.6 per cent of the total wage earners and has been made up out of 38.4 per cent adult

males, 54.7 per cent adult females and 6.9 per cent children. Of retail mercantile establishments 1,600 employes have been reported, this being 4.2 per cent of all wage earners and their respective per centage of all adult males, adult females and children were 61.2, 28.3 and 10.5.

Wholesale mercantile establishments have been credited with 1,437 employes, being 3.7 per cent of the total number and they were 88.0 per cent adult males, 9.5 per cent adult females and 2.5 per cent children. In the employ of telegraph, telephone, messenger and express companies 1,045 persons were reported, being 2.7 per cent of all wage earners, this class was composed of 45.5 per cent male adults, 44.8 per cent female adults and 9.7 per cent children under 16 years of age.

The relation of one class of wage earners to the other classes was as follows: There was employed:

- 1 woman to 3.3 men.
- 1 child to 44.9 adults.
- 1 boy to 46.7 men.
- 1 girl to 39.7 women.

All children represented 2.18 per cent of the total number of wage earners.

Of adult female wage earners the largest number employed in manufacturing and mechanical trades were reported for clothing and garment factories, they were 1,026 women or 11.9 per cent of all adult female wage earners. For the other industries their relative number and percentage was as follows:

Laundry work	790	9.2
Hosiery and knit goods	653	7.6
Food preparations	435	5.0
Dressmaking	406	4.7
Printing trades	368	4.3
Confectionery	310	3.6
Bag manufacture	265	3.1
Millinery	175	2.0
Crackers and cookies	214	2.5
Boots and shoes	192	2.2
Paper boxes	138	1.6
Cigars	132	1.5
Tailoring shops	118	1.4
Woolen mills	96	1.1

In all other manufacturing and mechanical trades in which women were employed, their number was less than one per cent of the total women wage earners. Department stores reported 1,392 women or 16.1 per cent; telegraph, telephone and messenger companies 468 women or 5.4 per cent; retail mercantile establishments 453 women or 5.3 per cent and wholesale mercantile establishments 136 women or 1.6 per cent of the total adult female wage earners.

From the school authorities of Minneapolis have been granted during the year 1905, school excuses to the number of 978, all of which however, have not carried with them the permission to work, some having been granted on account of sickness of child and other permits were for domestic work over which the factory inspection department cannot exercise control. There were reported 616 boys and 217 girls under the age of 16 years at gainful occupations during the whole or part of the year 1905.

In manufacturing and mechanical trades the largest number of boys were employed in planing mills, sash and door factories and similar woodworking establishments, their number was 54, being 8.8 per cent of all boys. For other trades their number and per cent of the total was as follows:

Printing trades	34	5.5
Saw mills	21	3.4
Woodenware	21	3.4
Wood boxes	19	3.1
Furniture factories	17	2.7
Cooper shops	16	2.6
Foundries and machine shops.....	13	2.1
Food products	12	1.9
Laundries	8	1.2
Boot and shoe factories	7	1.1
Cracker factories	7	1.1
Agricultural machinery	6	1.0

There were boys employed in 35 industrial trades besides those enumerated above but their number in each instance was less than one per cent of the total number of boys. Of non-manufacturing establishments the largest number of boys were found in retail mercantile establishments, and telegraph, telephone and messenger companies; their respective number and per cent of the whole was 126 and 100, and 20.5 and 16.2 per cent.

Department stores had 47 boys and wholesale mercantile establishments 35, being 7.6 and 5.7 per cent respectively of all boys.

The report enumerates 217 girls under 16 years of age of which number 77.4 per cent were employed in department and retail stores. The largest number, 127 or 58.5 per cent, were found in department stores; 41 or 18.9 per cent in retail mercantile establishments; 2.8 per cent in seed packing; 2.4 per cent in cracker factories and the same number in hosiery and knit goods factories. Paper box factories had 1.8 per cent of 1.4 per cent were in each of the following industries: Cigar making, candy making, laundry work and woodenware manufacturing. There were four trades of which each had 2 girls or .9 per cent of all girls, they were bookbinding, boot and shoe manufacturing, tailoring and rattan and willow-ware making.

Tables 2 and 3 show classifications of the wage earners by industries and trades according to their daily and weekly working hours. The summary review from these tables state that 47.2 per cent of all wage earners had a 10-hour workday and 41.9 per cent correspondingly had to work 60 hours each week while 4.7 per cent got off with 59 hours and 3.6 per cent with 58 hours each week. A 9-hour work day has been shown for 27 per cent of all wage earners and an 8-hour workday for 9.2 per cent. The corresponding weekly working time was 54 hours for 21.6 per cent and 48 hours for 6.1 per cent. A workday of 11 hours duration has been reported for 1.2 per cent of all wage earners and 12 hours for 2.3 per cent. Between the shortest and longest workday, 8 hours to 12 hours and 48 to 84 hours for the week, many sub-divisions appear.

There is a small army of night workers in the city of Minneapolis, their number and percentage of the whole for the principal industries are as follows:

Total number of night workers, 2,196, 100.00 per cent.

Flour mills	791	36.0
Saw mills	351	16.0
R. R. shops and round-houses	190	8.6
Iron works	176	8.0
Printing	118	5.4
Bakeries	70	3.2
Grain elevators	65	3.0
Electric light and power plants	47	2.1
Linseed oil mills	24	1.0
Gas works	30	1.4
Paper mill	30	1.4
Brick yards	24	1.1
Street railway shops	22	1.0

As regular Sunday workers have been reported 1,760 persons and their largest number is found in the flour mills and railroad round-houses and shops. Their respective number and percentage of the whole is shown to be as follows:

Flour mills	891	50.6
R. R. shops and round-houses	216	12.3
Electric light and power plants	111	6.3
Railroad yard work	65	3.7
Gas works	60	3.4
Creameries	59	3.3
Railroad track work	51	2.9
Grain elevators	51	2.9
Telegraph and telephone companies	51	2.9
Street railway shops	29	1.7
Bakeries	26	1.5

The summary report for 1906 shows 182 inspections more than in the preceding year and an increase in number of wage earners of 5,501 or 14 per cent. The exact figures given are 43,737 wage earners, sub-divided in 34,429 male adults, 9,106 female adults, and 202 children under 16 years of age, or 133 boys and 69 girls. The increase in adult male wage earners was 5,645 persons or 19 per cent; in adult females it was 487 persons or 5.6 per cent, and the decrease in minor children was from 833 to 202, although no comparison can be made, on account of the fact already mentioned elsewhere that child labor figures are shown for seven months only of 1906.

The principal industry of Minneapolis with reference to number of wage earners was that of saw mill work and lumber in general. In sawmills and their lumber yards were employed 8 per cent of all wage earners shown for the city. Work in planing mills and sash and door and blind factories furnished employment to 5.2 per cent of all wage earners, their number was 2,293. The manufacture of furniture and woodenware, with propriety may be classed as allied trades to the lumbering industry and thus we find that the whole lumbering industry furnished work to 17.2 per cent of all wage earners, because in furniture and cabinet making 1,101 persons were employed and in the manufacture of woodenware 627 persons or together 3.9 per cent of the total.

The combined iron working trades ranked second in importance and furnished employment to 10.2 per cent of the industrial wage earners, for 1,896 persons were shown for foundries, machine shops, boiler shops and blacksmith shops, exclusive of such establishments which exclusively have been manufacturing agricultural machinery and employed 1,490 wage earners, and structural iron and bridge works which had 1,073 persons working.

Third place took flour and grist milling. There were employed in flour mills 2,228 persons and in the manufacture of food products, such as breakfast and other cereal preparations 583 persons and in their aggregate they represented 6.4 per cent of all wage workers.

Railroad shop work and general repairs of rolling stock and round-house work furnished the means of subsistence to 1,881 persons, which represented 4.3 per cent of all wage earners, and the printing trades had in their aggregate the same per cent of all wage earners employed, their exact number being 1,879 persons.

The manufacturing of clothing and garments by factory process required 1,475 persons or 3.4 per cent of the total, and steam laundry work had work for 1,042 pairs of willing hands, which represented 2.4 per cent of all wage earners.

The work in terminal yards of railroads and in freight houses required 1,111 wage earners which represented 2.5 per cent of the total. In street railway shop work were engaged 1.2 per cent of all wage earners, and the same per cent is shown for merchant tailoring, while the manufacture of boots and shoes and of bags each required 1.1 per cent, and crackers and cookies manufacturing and dressmaking each had 1. per cent. Each of all mechanical industries and occupations required less than one per cent of the total wage earners.

Department stores had the largest per cent of wage earners of non-manufacturing establishments, their number was 2,718 or 6.2 per cent of all wage earners; wholesale mercantile establishments had 2,427 persons or 5.6 per cent; in retail mercantile establishments 1,227 wage earners or 2.9 per cent were enumerated and the employes of telegraph, telephone and messenger companies represented 2.4 per cent of all wage earners or 1,077 persons.

The most important change as to the number of adult male wage earners was that in the lumber industry.

Adult male wage earners in saw mills increased from 1,700 persons in 1905 to 3,521 in 1906, in planing mills and sash and door and blind factories from 1,859 to 2,253 and in woodenware factories from 279 to 559. Another notable increase took place in the iron

working trades; while in structural iron works adult male wage earners increased 6 in number, the increase in the agricultural machinery and implement branch was from 953 to 1,475 and in foundries, machine shops, boiler and blacksmith shops from 968 to 1,857.

The number of men engaged in railroad shop work increased from 1,688 to 1,877, in wagon factories from 133 to 228, in clothing factories from 244 to 385 and in bakeries from 263 to 329.

A decrease in the number of adult male wage earners from 2,425 to 2,190 in the flour and grist mill industry, however, is noted, also a decrease in the printing trades from 1,642 to 1,510, in bag factories from 245 to 200, in the manufacture of burial caskets and coffins from 99 to 30 and in food product factories from 257 to 161.

Adult female wage earners in their aggregate showed an increase since 1905 of 5.7 per cent and 69.7 per cent of their total number were engaged in manufacturing and mechanical pursuits, while 30.3 per cent worked in mercantile establishments and in telegraph, telephone and messenger service offices. Their relation to male adult labor was one woman to 3.8 men or in other words, they represented 20.9 per cent of the total adult labor.

Clothing and garment manufacturing furnished employment to 13.7 per cent of all women wage earners enumerated and their number had increased from 1,026 in 1905 to 1,251 in 1906.

Laundry work required 8.6 per cent of all female workers; the preparation and packing of cereal food products 4.6 per cent, the same per cent were engaged in dressmaking, 3.9 per cent in the printing trades, and 3.3 per cent in bag factories. In the latter industry an increase of 14 per cent over last year's female wage earners being noted. The female wage earners employed in millinery establishments increased 44 per cent in number since 1905 and their present aggregate represented 2.8 per cent of the total female wage earners.

An increase of 64 per cent since last year is shown for fur manufacturing, although their aggregate represented but 1.2 per cent of the total for the present year. For paper box manufacturing an increase of 21.0 per cent is recorded, for bakeries and the manufacture of other bakery products the increase was 58 per cent, for woodenware factories 114 per cent, and for woolen mills 10 per cent.

In boot and shoe factories was a decrease of 13.5 per cent of women wage earners since last year and in confectionery factories of 27.7 per cent.

In the combined non-manufacturing establishments enumerated in the report is shown an increase of adult female wage earners of 12.8 per cent. For the different classes it was as follows:

Department stores, 15.1 increase.

Wholesale mercantile establishment, 62.5 increase.

Telegraph, telephone and messenger service companies, 20.5 increase.

Retail mercantile establishments, 16.7 decrease.

Of the children under 16 years of age, enumerated in the report it is to be said that 55 per cent were found employed in occupations which have been classed as non-manufacturing, or, 45.5 per cent in department stores, a fraction less than 7 per cent in retail mercantile establishments and the rest in wholesale mercantile establishments.

Reference to earlier reports of this department will disclose the fact that telegraph and telephone and messenger service companies, which in former years were prominent employers of child labor, entirely seem to have dispensed with this class of juvenile wage earners. There have been enumerated thirty-one separate industries in which child labor was found, however sixteen of them had but one child each to their showing; in each of five other industries two children were found, three in each of four industries, and four in each of two. The largest number were employed in furniture factories; they had 7 per cent of all children reported, printing establishments had 6 per cent, planing mills and sash and door factories 5.4 per cent and woodenware factories 4.0 per cent.

Conditions as to regular night and Sunday work has somewhat changed during the year. In 1905 the regular night workers represented 5.8 per cent of all day workers and in 1906 the percentage was 7.2; the number of Sunday workers, however, has decreased 16.9 per cent and their aggregate represented 3.3 per cent of all day wage earners in 1906.

TABLE I.—CITY OF MINNEAPOLIS, 1905 AND 1906.*

* Includes Columbia Heights, Hopkins, St. Anthony Park, St. Louis Park and Wayzata.

INDUSTRIES	1905						1906					
	No. of Inspections			Wage Earners			No. of Inspections			Wage Earners		
	Total Number	Adults		Under 16 Years	Regular Night Work	Regular Sunday Work	Total Number	Adults		Under 16 Years	Regular Night Work	Regular Sunday Work
		Male	Female					Male	Female			
Agricultural machinery and implements.....	11	971	953	12	6	21	1,490	1,475	15	.....	.....	8
Artificial limbs and trusses.....	3	53	49	9	.....	.....	4	65	12	.....	.....	.....
Automobile and bicycle repairing.....	16	90	85	4	1	1	154	144	10	.....	.....	27
Bags.....	2	511	245	285	1	13	504	200	304	.....	.....	1
Belting, leather and rubber.....	2	68	65	3	.....	1	65	62	3	.....	.....	.....
Bookbinding and blankbook making.....	7	89	64	20	3	2	78	48	29	1	.....	.....
Boots and shoes, factory products.....	3	566	285	192	7	2	504	338	166	.....	.....	.....
Bottling.....	17	156	154	2	.....	1	259	241	18	.....	.....	5
Boxes—cigar.....	9	36	31	2	.....	.....	13	5	8	.....	.....	.....
Boxes—paper and envelopes.....	3	239	94	18	3	1	286	98	188	1	.....	1
Boxes—wood, packing.....	4	347	325	3	19	4	363	363	3	2	.....	2
Brass casting and brass finishing.....	7	151	149	2	.....	.....	68	68	.....	.....	.....	1
Bread and other bakery products.....	37	328	263	63	2	70	430	329	100	1	.....	67
Brewing.....	7	323	302	21	3	2	330	307	23	.....	.....	17
Brick.....	11	256	253	21	3	24	272	270	2	.....	.....	14
Brooms.....	2	18	18	.....	.....	.....	34	34	.....	.....	.....	.....
Brushes.....	3	3	3	.....	.....	.....	4	4	.....	.....	.....	.....
Burial caskets and coffins.....	2	120	99	21	.....	.....	30	30	.....	.....	.....	.....
Carpet cleaning.....	3	34	26	8	.....	.....	11	9	2	.....	.....	.....
Carpet cleaning.....	2	15	9	6	.....	.....	33	22	11	.....	.....	.....
Carpets and rugs.....	2	15	9	6	.....	.....	33	22	11	.....	.....	.....
Cement, lime and plaster.....	1	6	6	.....	.....	.....	34	34	.....	.....	.....	.....
Cement stone and cement side-ings.....	11	179	178	178	1	1	63	63	.....	.....	.....	.....
Chemicals.....	12	12	12	.....	.....	.....	32	30	2	.....	.....	.....
Cigars.....	24	241	241	182	3	3	360	286	123	1	.....	.....

	19	1,215	188	1,026	1	1	22	1,475	223	1,251	1	5	2
Clothing—factory product.....	31	367	244	118	3	2	60	532	385	144	3	1	5
Clothing—men's, custom work and repairing.....	13	423	16	406	1	1	15	437	20	416	1	1	1
Clothing—women's, dressmaking	3	104	87	17	1	1	3	67	39	28	1	1	1
Coffee roasting, extracts and spices.....	12	517	201	310	3	3	11	414	187	224	3	6	3
Confectionery.....	5	357	355	1	1	1	4	347	345	2	1	1	1
Contracting.....	7	468	449	1	16	4	6	395	392	2	2	5	6
Cooperage.....	2	485	259	214	7	5	2	437	222	213	1	3	2
Crackers and cookies.....	7	77	72	4	1	1	11	139	177	12	13	70	70
Creamery products.....	5	97	51	46	1	1	7	190	96	94	1	1	1
Dyeing and clothes cleaning.....	4	72	69	2	1	1	10	189	182	7	1	1	1
Electrical machinery, construction and wiring.....	21	113	113	1	1	1	22	122	122	1	1	36	41
Electric light, heat and power—buildings.....	1	75	75	1	1	1	1	75	75	1	1	12	12
Electric light, heat and power—public service.....	1	40	40	3	1	1	1	47	47	7	1	10	35
Electric power plant—street car service.....	1	29	25	1	1	1	3	35	35	30	1	10	10
Electroplating.....	1	7	7	1	1	1	2	30	30	27	1	1	1
Engraving.....	3	82	71	11	1	1	2	30	30	3	1	1	1
Engraving and stereotyping.....	23	2,473	2,425	46	2	2	28	2,238	2,190	38	2	917	65
Flour and grist milling products	10	705	257	435	12	1	8	553	161	419	2	2	2
Food preparations.....	48	1,007	938	26	13	1	77	1,896	1,857	37	2	44	9
Foundry and machine shop products.....	5	163	98	65	1	1	11	225	118	107	1	1	1
Furs.....	21	960	925	18	17	1	25	1,101	1,054	33	12	4	1
Fur dressing and dyeing.....	1	91	90	1	1	1	3	115	115	1	2	4	4
Furniture and cabinet making..	2	24	10	14	1	1	2	25	11	14	1	37	52
Gas-illuminating.....	45	510	510	10	1	1	31	371	369	1	1	74	27
Gloves and mittens.....	3	20	18	2	1	1	3	45	36	8	1	1	1
Grain cleaning and storing.....	1	9	6	3	3	1	3	13	8	5	1	1	1
Hand stamps, seals and stencils	4	728	70	653	5	2	3	229	147	180	2	1	1
Hats and caps.....	2	194	172	21	1	1	1	165	145	20	1	1	2
Hosiery and knit goods.....	6	1,076	1,064	11	1	1	4	1,073	1,070	3	75	2	2
Iron beds and springs.....	5	78	67	6	4	1	5	62	58	4	1	58	58
Iron, structural and ornamental	7	166	138	28	1	1	17	140	116	24	1	1	1
Jewelry and optical goods.....	43	1,045	790	8	3	3	47	1,042	259	782	1	1	4
Junk sorting and packing.....	1	65	65	2	1	1	2	51	51	11	1	1	1
Laundry work.....	2	217	215	2	1	1	5	418	406	11	1	126	27
Leather tanning.....	1	28	25	2	1	1	1	30	26	4	1	1	1
Linseed oil and linseed cake....	3	43	38	4	1	1	6	67	60	7	1	1	1
Lithographing.....	2	18	18	1	1	1	3	27	27	1	1	1	1
Looking glass and picture frames and mouldings.....	3	18	18	1	1	1	3	27	27	1	1	1	1
Locksmithing and gunsmithing..	2	18	18	1	1	1	3	27	27	1	1	1	1
Lumber, planing mill products..	27	1,950	1,859	37	54	1	28	2,293	2,253	29	11	19	18
incl. sash, door and blind mfg.	8	1,721	1,700	21	21	1	7	3,527	3,521	3	3	938	25
Lumber and timber—saw mill....													

TABLE I. CITY OF MINNEAPOLIS, 1905 AND 1906.*—Continued.
 * Includes Columbia Heights, Hopkins, St. Anthony Park, St. Louis Park and Wayzata.

INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults	Fe- male	Under 16 Years	Male	Fe- male	Male	Fe- male	Under 16 Years	Male	Total Number	Adults	Fe- male	Under 16 Years	Male	Fe- male	Male	Fe- male	Under 16 Years	Male
	Regular Night Work	Regular Sunday Work	Number of Persons	No. of Inspections																
Maltine	29	28	1	1	22	22	14	14	1	1	22	22	14	14	1	1	22	22	14	14
Marble and tile	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mattresses and bedding	167	148	15	3	191	170	21	21	3	3	191	170	21	21	3	3	191	170	21	21
Medicines and drugs	27	12	13	2	51	21	30	21	2	2	51	21	30	21	2	2	51	21	30	21
Millinery	228	50	175	3	291	39	252	291	3	3	291	39	252	291	3	3	291	39	252	291
Model and pattern making	22	22	22	2	23	23	23	23	2	2	23	23	23	23	2	2	23	23	23	23
Monuments and tombstones	4	24	24	1	14	14	14	14	1	1	14	14	14	14	1	1	14	14	14	14
Musical instruments	12	10	2	2	40	34	6	34	2	2	40	34	6	34	2	2	40	34	6	34
Paint and varnish	106	83	12	2	65	65	65	65	2	2	65	65	65	65	2	2	65	65	65	65
Paper	62	60	2	2	173	97	76	97	2	2	173	97	76	97	2	2	173	97	76	97
Pickles and preserves	127	72	54	1	427	411	16	411	1	1	427	411	16	411	1	1	427	411	16	411
Plumbing and gas and steam fitting	317	308	11	23	1,879	1,510	367	1,510	23	23	1,879	1,510	367	1,510	23	23	1,879	1,510	367	1,510
Printing	2,044	1,642	388	34	1,881	1,877	4	1,877	34	34	1,881	1,877	4	1,877	34	34	1,881	1,877	4	1,877
Railroad work—shop and round-house	1,884	1,688	2	4	380	380	380	380	5	5	380	380	380	380	5	5	380	380	380	380
Railroad work—track repairing and switch blocking	515	515	6	18	1,111	1,002	109	1,002	18	18	1,111	1,002	109	1,002	18	18	1,111	1,002	109	1,002
Railroad work—terminal yards	789	723	6	65	190	190	190	190	65	65	190	190	190	190	65	65	190	190	190	190

	116	92	20	2	2	2	1	4	187	122	84	1	1	1
Rattan and willow ware.....	4	116	92	20	2	2	1	4	187	122	84	1	1	1
Seed packing.....	2	103	45	50	3	3	6	1	114	55	59	1	1	1
Saddlery and harness.....	2	166	141	13	3	3	1	13	223	207	18	1	1	2
Sheet metal work and roofing.....	24	173	170	3	1	1	1	30	384	344	19	1	1	1
Show cases.....	3	38	37	1	1	1	1	3	22	22	2	1	1	1
Sign making and sign writing.....	4	70	67	3	2	2	1	6	76	74	2	1	1	1
Stone cutting.....	3	51	51	1	1	1	1	3	46	46	2	1	1	1
Stone quarry.....	4	175	175	1	1	1	1	2	129	127	2	1	1	1
Street railway work—shop work.....	2	688	688	1	1	1	1	1	546	545	150	1	1	190
Tar paper and tar felt.....	1	18	17	1	1	1	1	1	25	25	1	1	1	1
Tents and awnings.....	5	71	36	35	1	1	1	6	111	57	53	1	1	1
Tools.....	2	41	46	3	2	2	1	3	35	21	4	1	1	1
Trunks and valises.....	3	48	46	1	1	1	1	3	45	44	1	1	1	1
Upholstering.....	3	17	15	1	1	1	1	7	23	27	1	1	1	1
Wagon, carriage and sleigh.....	13	141	133	6	2	2	1	10	254	228	26	1	1	1
Wall cleaning material and paste.....	1	23	23	1	1	1	1	1	27	27	1	1	1	1
Window shades.....	1	13	12	1	1	1	1	2	31	23	8	1	1	1
Wire and fence work.....	1	10	6	1	1	1	1	2	186	173	9	1	1	1
Woodenware.....	11	331	279	28	3	3	1	13	627	559	60	2	19	1
Wood turning and carving.....	1	16	14	1	1	1	1	2	27	26	1	1	1	1
Woolen goods.....	1	254	154	96	4	4	1	2	256	146	106	1	1	1
Department stores.....	14	2,542	976	1,322	47	47	19	20	2,718	1,023	1,602	35	29	12
Retail mercantile establishments.....	41	1,600	999	1,453	126	126	6	39	1,227	836	377	13	7	6
Telegraph, telephone, messenger and express companies.....	9	1,045	476	468	100	100	1	2	1,077	513	564	28	23	227
Wholesale mercantile establishments.....	41	1,437	1,285	136	35	35	4	46	2,427	2,202	221	4	29	16
Municipal work—water works.....	3	67	67	1	1	1	1	1	17	17	1	1	1	1
Other inspections.....	12	120	106	14	1	1	1	1	6	6	1	1	1	1
Soap.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Blacksmithing and wheelwrighting.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Painting, paper hanging and decorating.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stoves and ranges.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total.....	998	38,236	28,784	8,619	616	616	217	1,760	43,737	34,429	9,106	133	69	1,462

TABLE II.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I.

CITY OF MINNEAPOLIS.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Agricultural machinery and implements	1	55	9	54	2	88	9	54
Artificial limbs and trusses..	1	64	10	59	10	1,402	10	60
Automobile and bicycle repairing	1	27	9	52	1	5	9	54
	1	25	9	54	3	60	10	60
	1	6	10	60				
Bags	1	27	8½	51				
	4	19	9	54	8	82	9	54
	10	42	10	60	8	72	10	60
	1	2	12	72				
Belting	1	300	9	54				
	1	211	10	60	2	504	10	60
	1	41	9	54	2	65	9	54
	1	27	8-10	48-60				
Blacksmithing and wheel-wrighting					9	52	10	60
Bookbinding and blankbook making	7	89	9	54	1	10	8	48
					6	68	9	54
Boots and shoes—factory product	1	13	9	54	1	483	9	54
	1	522	10	59	1	21	10	60
	1	31	9-10	54-60				
Bottling	1	28	8	48	3	145	9	54
	3	76	9	54	9	58	10	60
	13	52	10	60	1	10	8-10	48-60
					3	46	9-10	54-60
Boxes, cigar	1	7	9	54				
	1	9	10	60	2	13	10	60
Boxes, paper and envelopes..	3	239	10	60	3	219	10	60
					1	48	8-9	48-54
Boxes, wood, packing.....	4	347	10	60	5	363	10	60
Brass casting and brass finishing	1	10	8	48				
	2	32	9	54	5	60	9	54
	2	66	10	56				
	1	36	10	59				
	1	7	10	60	1	8	10	60
Bread and other bakery products	3	13	8	48	48	329	8½	51
	4	72	9	54	5	80	9	54
	28	239	10	60	5	12	10	60
	2	4	12	72	2	9	11	66
Brewing	1	75	8	48				
	1	25	9	54				
	5	223	10	60	4	225	10	60
					2	105	8-10	48-60
Brick	11	256	10	60	11	272	10	60
Brooms	2	18	10	60	3	26	10	60
					1	8	9	54
Brushes	1	3	8	48	1	4	8	48
Burial caskets and coffins...	1	8	9	54				
	1	112	10	60	2	30	10	60
Carpet cleaning	2	28	9	54	1	11	9	54
	1	6	10	60				
Carpets and rugs.....	2	15	9	54	1	4	9	54
					4	29	10	60
Cement, lime and plaster.....	1	6	10	60	2	19	10	60
					1	5	8	48
					1	10	9	54
Cement stone and cement sidewalk	5	96	9	54	5	51	9	54
	6	83	10	60	1	12	10	60

TABLE II—CITY OF MINNEAPOLIS—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Chemicals	1	12	8	48	1	13	8	48
	2	13	9	54	2	13	9	54
	3	13	10	60	3	13	10	60
Cigars	1	5	7	42	2	6	8	48
	21	370	8	48	21	346	8	48
	2	11	10	60	3	4	9	54
Clothing—factory product.....	1	13	8	48	4	10	10	60
	2	38	9	50	2	24	8	48
	7	134	9	54	10	404	9	57
	1	32	9½	54	2	379	9½	57
	4	544	9½	57	3	668	10	60
	3	401	10	60				
	1	53	10	60				
Clothing—men's, custom work and repairing.....	1	7	8	48	1	18	8	48
	6	88	9	54	2	60	9	54
	4	54	9½	57	5	103	9½	57
	20	218	10	60	52	351	10	60
Clothing—women's, dress-making	13	423	9	54	15	437	9	54
Coffee roasting, spices and extracts	1	4	8	48				
	1	40	9	54				
	1	60	10	60	3	67	10	60
Confectionery	5	47	9	54				
	1	10	9½	58	1	10	9½	57
	5	392	10	60	10	404	10	60
Contracting	1	68	9-10	54-55				
	4	257	8	48	1	35	8	48
	1	100	10	60	1	252	8-9	48-54
					1	25	8-10	48-60
					1	35	10-11	60-66
Cooperage	4	171	8	48	3	137	8	48
	3	295	10	60	3	208	10	60
Crackers and cookies.....	2	485	10	60	3	437	10	60
Creamery products—butter...	4	24	10	60	11	139	10	60
	2	13	12	72				
	1	40	8-10	48-60				
Dyeing and clothes cleaning.	1	9	10	59	1	9	9	54
	4	88	10	60	6	181	10	60
Electrical machinery and constructions	1	3	8	48	4	42	8	48
	1	36	9½	56	4	93	9	54
	2	33	10	60	2	54	10	60
Electric light, heat and power plants—buildings ...	1	39	9	54	2	46	8	48
	13	41	12	72	13	51	10	60
	1	1	14	84	3	10	12	72
	2	9	8-10	48-60	4	15	10-12	60-72
	3	19	10-12	60-72				
	1	4	12-13	72-78				
Electric light, heat and power plant—public service	1	75	10-12	60-72	1	75	10	60
Electric power plant—street car service	1	40	12	72	1	47	12	72
Electroplating	1	10	8	48	2	21	8	48
	1	2	9	54	1	3	9	54
	2	17	10	60	2	12	10	60
Electrotyping & stereotyping	1	7	10	60	1	15	8	48
Engraving	1	16	8	48	2	15	10	60
	2	66	8½	50				

TABLE II—CITY OF MINNEAPOLIS—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Flour and grist milling.....	16	30	8	48	1	32	8	8
	1	1,158	10	60	2	411	9	54
	1	26	11	66	7	41	10	60
	5	722	12	72	17	1,682	8-10	48-72
	4	446	8-10	48-60	1	2	10-13	60-12
	1	91	8-12	48-72				
Food preparations	1	7	8	48	1	29	8	54
	5	426	9	54	3	288	9	54
	2	28	10	60	4	166	10	60
	1	181	10	59				
	1	63	8-10	48-59				
Foundry and machine shop products	1	10	8	48	7	71	8	54
	17	385	9	54	19	406	9	54
	3	78	9½	56	4	46	9½	57
	1	30	9½	57	7	122	10	60
	1	11	10	53	6	263	10	60
	12	223	10	56	34	969	10	60
	4	74	10	59				
	9	196	10	60				
Fur goods	1	116	9	53	8	83	9	54
	4	47	9	54	3	142	10	60
Fur dressing and dyeing.....	1	18	10	60	2	33	10	60
Furniture and cabinetmaking	1	18	9	53	3	36	8	54
	10	336	9	54	2	16	9	54
	7	459	10	60	16	836	10	60
	1	40	8-10	48-60	1	40	8-9	48-54
	2	107	9-10	54-60	3	175	9-10	54-60
Gas, illuminating	1	91	10-12	60-72	2	5	10	60
					1	110	10-12	60-72
Gloves and mittens.....	1	9	9	54	2	26	10	60
	1	15	10	60				
Grain cleaning and mixing...	1	17	10	59				
	42	447	10	60	24	283	10	60
	1	8	10-12	60-72	7	88	10-13	60-72
	1	38	10-13	60-78				
Hand stamps, seals and stencils	3	20	9	54	3	45	9	54
Hats and caps	1	9	8	48	1	8	8	48
					1	5	9	54
Hosiery and knit goods.....	1	23	9	54	1	55	9	54
	1	151	10	58	2	174	10	60
	2	554	10	60				
Iron beds and wire springs...	2	194	10	60	1	165	10	60
Iron and steel—structural and architectural	1	11	8	48	1	213	9	54
	1	1,020	9	54	1	9	10	60
	1	40	10	55	1	68	9-10	54-60
	1	5	10	60	1	785	10-12	60-72
Jewelry and optical goods....	3	59	9	53	5	62	9	54
	2	19	9	54				
Junk sorting and packing....	1	28	9	54	17	140	10	60
	6	138	10	60				
Laundry work	3	72	9	50	1	33	8	48
	8	157	9	54	14	272	9	54
	3	30	9½	57	4	99	9½	57
	3	108	10	50	2	48	10	60
	3	111	10	53	26	590	10	60
	1	15	10	54				
	4	162	10	55				
	18	390	10	60				
Leather tanning	1	65	10	59	2	51	10	60
Linseed oil and linseed cakes	1	150	10	60	3	156	10	60
	1	67	10-12	60-72	1	170	12	72
					1	92	10-12	60-72

TABLE II—CITY OF MINNEAPOLIS—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Lithographing	1	28	9	53	1	39	9	54
Looking glass and picture frames	1	6	8	48	6	67	10	60
Locksmithing & gunsmithing	2	37	10	60	3	27	10	60
Lumber, planing mill products, including sash, door and blind mfg.	2	18	10	60	3	27	10	60
.....	1	12	8	48	1	8	8	48
.....	1	66	9	53	1	15	9	54
.....	1	3	9	54	24	2,000	10	60
.....	1	25	10	57	2	268	10-12	60-72
.....	1	171	10	59	.....	.....	.....	.....
.....	20	1,616	10	60	.....	.....	.....	.....
.....	1	35	12	72	.....	.....	.....	.....
.....	1	22	8-10	48-60	.....	.....	.....	.....
Lumber and timber	7	1,301	10	60	7	3,527	10	60
.....	1	420	10-11	60-66	.....	.....	.....	.....
Malting	1	29	10	60	1	22	10	60
Marble and tile work	1	3	8	48	1	14	8	48
Mattresses and bedding	1	10	9	53	3	191	10	60
.....	2	157	10	60	.....	.....	.....	.....
Medicines and drugs	1	8	9	54	1	6	9	54
.....	1	9	10	59	2	45	10	60
.....	1	10	10	60	.....	.....	.....	.....
Millinery	1	228	9	54	17	258	9	54
.....	.....	.....	.....	.....	4	33	10	60
Model and pattern making	3	22	10	60	2	13	9	54
.....	.....	.....	.....	.....	2	10	10	60
Monuments and tombstones	1	3	8	48	1	2	8	48
.....	3	21	10	60	1	4	9	54
Musical instruments .....	.....	.....	.....	.....	2	46	10	60
Paint and varnishes	1	12	10	60	2	14	10	60
Painting, paperhanging and decorating	2	106	10	60	1	40	10	60
Paper .....	.....	.....	.....	.....	7	84	8	48
Pickles and preserves	1	62	11-12	66-72	1	65	10	60
.....	3	127	10	60	1	25	9	54
Plumbing and gas and steam-fitting .....	.....	.....	.....	.....	4	148	10	60
.....	18	247	8	48	11	135	8	48
.....	4	55	9	54	8	247	9	54
Printing	1	15	9-10	54-60	4	45	8-10	48-60
.....	14	173	8	48	28	874	8	48
.....	1	35	8½	57	47	796	9	54-60
.....	1	13	9	50	2	7	10	60
.....	16	195	9	53	11	202	8-9	48-54
.....	48	1,640	9	54	.....	.....	.....	.....
Railroad work—shops and roundhouses	1	658	9	54	1	55	10	60
.....	7	608	10	60	1	19	11	66
Railroad work—track and switch yards	1	428	11	66	3	1,807	10-12	60-72
Railroad work—terminal yards	45	515	10	60	43	360	10	60
.....	7	268	10	60	11	555	10	60
.....	5	255	10-12	60-72	4	305	9-10	54-60
.....	1	86	10-13	60-78	1	65	10-12	60-72
Rattan and willow-ware .....	.....	.....	.....	.....	2	126	10-11	60-66
.....	1	20	10	59	1	7	9	54
.....	3	96	10	60	2	128	10	60
.....	.....	.....	.....	.....	1	52	8-10	48-60
Seed packing	2	103	10	60	1	114	10	60
Saddlery and harness	1	142	10	58	13	223	10	60
.....	1	14	10	59	.....	.....	.....	.....

TABLE II—CITY OF MINNEAPOLIS—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Sheetmetal working and roofing	14	111	8	48	15	150	8	48
	6	25	9	54	5	110	9	54
	1	25	10	58	10	104	10	60
	3	12	10	60				
Show cases	1	4	9	54	2	19	9	54
	1	18	10	56	1	3	10	60
	1	16	10	59				
Soap								
Signs	4	70	8	48	1	6	10	60
					5	74	8	48
					1	2	10	60
Stone cutting	2	26	8	48	2	26	8	48
	1	25	8-10	48-60	1	20	10	60
Stone quarry	4	175	10	60	2	129	10	60
Stoves and ranges								
Street railway—shop work.....	1	268	10	60	1	5	10	60
	1	420	9-13	54-78	1	545	10-12	60-72
Tar paper and tar felt.....	1	18	10	60	1	25	10	60
Tents and awnings.....	1	8	9	54	1	10	8	48
	4	63	10	60	5	101	10	60
Tools	1	16	10	59	1	3	8	48
	1	5	10	60	2	22	10	60
Trunks and valises.....	2	39	10	59	3	45	10	60
	1	9	10	60				
Upholstering	1	5	9	54	1	2	8	48
	1	9	10	59	5	23	9	54
	1	3	10	60	1	3	10	60
Wagons, carriages and sleighs	2	14	9	54	10	26-4	10	60
	11	127	10	60				
Wall cleaning material and paste	1	23	10	60	1	27	10	60
Window shades	1	13	10	59	2	31	10	60
Wire and fence work.....	1	10	10	60	2	33	10	60
					1	153	8-10	48-60
Woodenware	4	235	9	54	1	166	9	54
	7	96	10	60	1	36	10	58
Wood turning					11	425	10	60
Woolen goods	1	15	10	60	2	27	10	60
	1	254	9½	58½	1	254	9½	57
Municipal work					1	2	10	60
	1	47	5	30				
	1	18	8	48	1	17	8	48
Department stores	1	2	10	60				
	2	261	8	48	3	772	8	52
	1	177	8	52	1	318	8½	56
	2	817	8	53	8	1,326	9	54
	1	87	8	60	5	216	9	58
	1	162	9	54	1	12	9½	57
	1	284	9	58	2	74	9½	59
	1	25	9	60				
	1	18	9	62				
	1	8	10	60				
	1	6	10	64				
	1	5	12	72				
	1	692	8-9	53-59				
Retail mercantile establishments	2	15	8	48	9	515	9	54
	1	22	8	52	3	222	9	58
	13	216	9	54	24	270	10	60
	1	15	9	56	1	9	11	66
	5	309	9	58	1	211	9-10	54-60
	14	909	9	60				
	3	191	10	60				
	1	90	10	65				
	1	5	12	72				

TABLE II—CITY OF MINNEAPOLIS—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Telegraph, telephone and messenger companies	23	310	8	48	1	725	8-10	48-60
	3	500	9	54	1	352	8-11	48-66
	1	6	10	60				
	1	39	9½	59				
	1	93	7-9	49-54				
	1	97	7½-9	48-57				
Wholesale mercantile establishments	4	52	8	48	1	5	8	48
	1	15	9	50	8	376	9	54
	6	204	9	54	1	15	10	59
	1	104	9½	54	15	544	10	60
	1	14	9½	59	1	87	8-9½	48-57
	1	21	10	55	9	578	8-10	48-60
	2	202	10	58	9	259	9-10	54-60
	1	15	10	59	2	563	9½	57
	19	658	10	60				
	3	105	8-10	48-60				
	1	26	9-10	54-60				
	1	21	9-10	56-60				
Other inspections	4	68	8	48				
	2	14	9	54				
	6	38	10	60				
Total	998	38,236						

Table III.—Number of Wage Earners and Specified Daily and Weekly Working Time in Hours for All Industries and Occupations Enumerated in Table I.

CITY OF MINNEAPOLIS.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	52	60	Less than 48	52	60
8	3,537	3,232	48	2,347	2,439
8½	116	647	50	322	423
9	10,340	8,737	51	40	329
9½	1,225	1,540	52	226	320
10	18,061	20,078	53	1,431	127
11	454	137	54	8,261	8,067
12	867	227	55	223	106
13	1	12	56	436	440
7 to 9	93	.....	57	683	1,495
7½ to 9	97	100	58	1,377	636
8 to 9	692	540	59	1,804	352
8 to 10	777	2,737	60	16,005	19,594
8 to 12	91	125	62	18	.....
9 to 10	268	1,122	64	6	.....
9 to 13	420	410	65	90	.....
10 to 11	420	161	66	454	37
10 to 12	545	3,637	72	868	227
10 to 13	124	90	48 to 54	.....	540
11 to 12	62	85	48 to 57	.....	37
12 to 13	4	10	48 to 59	160	100
			48 to 60	714	2,639
			48 to 72	91	.....
			49 to 54	93	91
			53 to 59	692	.....
			54 to 60	268	1,122
			54 to 78	420	.....
			60 to 66	420	161
			60 to 72	545	3,637
			60 to 78	124	90
			66 to 72	62	.....
			72 to 78	4	.....
Total.....	38,236	43,737	Total.....	38,236	43,737

FACTORY INSPECTION

IN THE

CITY OF DULUTH

FACTORY INSPECTION

CITY OF DULUTH, 1905 AND 1906

At Proctorknott, near Duluth, are located the locomotive and coach and car repair shops of the Duluth, Missabe & Northern R. R.; the inspection of these shops have been included in the records of the city of Duluth; also those of West Duluth and New Duluth.

The factory inspector reports 236 separate inspections for the city of Duluth for 1905 with 8,752 wage earners which are composed of 7,436 adult males, 1,126 females, 118 boys and 72 girls under 16 years of age. According to these figures there was employed one woman to 6.6 men, one boy under 16 years of age to 63 men and one girl to 15.6 women.

In manufacturing and mechanical trades the largest number of wage earners found employment in the lumber and timber industry, exclusive of planing mills and sash and door factories. In sawmills and shingle mills were employed 11.6 per cent of all wage earners or 1,019 persons while the employees of planing mills and sash and door factories represented but 3.3 per cent or 287 persons.

Railroad work in shops and round-houses and coach and car repairing furnished work to 412 persons or 4.7 per cent of the total. The coal docks of Duluth had 405 employees making 4.6 per cent and the only blast furnace in the state which manufactures pig iron from Minnesota ore being located at West Duluth and in connection operates a coal coking and gas plant, had 356 wage earners or 4.1 per cent on its pay roll. The work at the ore docks of the Duluth, Missabe & Northern Ry. where the iron ore is being transferred from the railroad cars to the holds of the lake steamers, required 4.0 per cent of all wage earners or 350 persons. The railroads terminating at Duluth and other transportation companies have large freight sheds at Duluth, it required 308 persons or 3.5 per cent for handling of freight and switching trains and cars. The foundry, boiler and machine shop industry had work for 303 per-

sons, this being a fraction less than 3.5 per cent of all employed; the grain elevators had 260 men or 3.0 per cent and the only match factory in the state which is located at West Duluth gave employment to 251 persons or 2.9 per cent.

In the printing trades, inclusive of book-binding and allied work were 240 persons employed or 2.7 per cent and there were reported 236 persons or a fraction less than 2.7 per cent from the steam laundries of Duluth. In street railway work, shop work and traffic were engaged 213 persons or 2.4 per cent, in clothing factories, principally makers of men's garments, shirts and overalls, 163 persons or 1.9 per cent were at work; in cigar factories 106 people or 1.2 per cent, in cooperage work and lime manufacturing 104 persons or a fraction less than 1.2 per cent. In breweries were employed 101 persons or 1.1 per cent; in confectioneries 91 persons or 1.0 per cent while each of the other industries enumerated had less than one per cent of the total number of wage earners.

The report contains records of 35 wholesale mercantile establishments with 1,213 employes or 13.9 per cent of all wage earners; in 31 retail mercantile establishments 483 or 5.5 per cent were found, department stores employed 375 persons or 4.3 per cent and telegraph, telephone and messenger companies 198 persons or 2.3 per cent while the wage earners in the city engineers department were composed of 288 wage earners or 3.3 per cent of all persons.

The adult female wage earners represented 13.1 per cent of all adults and 12.9 per cent of the total number of wage earners. The largest number of women employed in manufacturing and mechanical trades were engaged in laundry work; they represented 16.3 per cent of all women or 184 women.

Clothing factories and the match factory each employed 137 women or 12.2 per cent of the total. There were reported 43 women, 3.8 per cent from confectioneries; 29 or 2.6 per cent from bakeries and 28 or 2.5 per cent from printing establishments. In cigar factories were employed 16 women or 1.4 per cent; in boot and shoe manufacturing 12 women or 1.1 per cent and the number of women employed in other trades was less than one per cent of the total for each of such trades. The largest number of women employed in non-manufacturing establishments were reported from department stores, their number was 191 or 16.9 per cent of all women. Retail mercantile establishments had 10.0 per cent or 113 women, and wholesale mercantile establishments 107 women or 9.5 per cent. Telegraph, telephone and messenger companies had in their employ 88 women or 7.8 per cent of all women reported as wage earners.

The superintendent of schools of the city of Duluth during the school year 1904-1905 granted 186 school excuses to children under 16 years of age and 59 school excuses have been issued since the commencement of the school year 1905-6 up to Dec. 31, 1905. All excuses, however, have not been employment permits and the factory inspectors report for the year 1905 shows that 190 children or 118 boys and 72 girls have been employed in gainful occupations during the whole or part of the year. There was employed one child under 16 years of age to 45 adult wage earners, or all children represented 2.2 per cent of the total wage earners.

In manufacturing and mechanical trades were found employed 55 boys and 40 girls under 16 years of age, and in non-manufacturing establishments 63 boys and 32 girls. It must, however, be mentioned that these children have not all been employed in their respective working places at the same time or during the whole year; some worked a short time only and were replaced by other children. From the match factory were reported the largest number of children of those working in manufacturing establishments; 16 boys and 34 girls or 26.3 per cent of all children.

In printing establishments 10 boys and 2 girls were at work or 6.3 per cent; there were 10 boys or 5.7 per cent of the total children employed in the manufacture of wooden boxes; 4 boys or 2.1 per cent in planing mills inclusive of sash and door factories; the same number in cooperage work and 1 boy and 3 girls in overall and shirt factories. Three children or 1.6 per cent were found at work in shingle mills, the same number in the manufacture of boots and shoes and 2 boys were found in cigar-making establishments. Confectionery work, lithographing and railroad office work furnished each one child under 16 years.

Of non-manufacturing establishments, department stores have taken the lead in employment of children; 27 boys and 13 girls or 20.1 per cent were reported and 33 children or 14 boys and 19 girls from other retail mercantile establishments. They represented 17.4 per cent of all children. Wholesale mercantile establishments had 12 children or 6.3 per cent and telegraph, telephone and messenger companies 10 boys or 5.7 per cent of all children.

An inquiry into the lengths of working time daily and weekly of the wage earners enumerated shows that 50.4 per cent worked 10 hours each day and 49.9 per cent worked 60 hours each week, 22.3 per cent had a 9-hour work day and 17.8 per cent worked 54 hours each week, while 5.7 per cent had to work 57 hours and 2.4 per cent 59 hours. An 8-hour work day has been reported for 12.1 per cent of all wage earners and 48 hours each week for 8.6 per cent. The daily working time for the other wage earners was from 8 to 12 hours each day and from 48 to 66 hours each week. Night work was reported for 630 persons and Sunday work for 235.

The inspection reports for 1906, summarized, shows 244 inspections, as against 236 in the preceding year, and a corresponding increase in the wage earners total number from 8,752 to 8,802. The relation of the different classes of wage earners one to another, however, has changed. In 1905 one woman was employed to 6.6 men while in 1906 it was one woman to 7.3 men, denoting a reduction in woman wage earners in favor of men. That which was said in the inspection report for St. Paul with reference to child labor holds equally true for Duluth and every part of the state. The figures on child labor refer only to the first seven months of the year 1906, and therefore cannot be compared with other similar data for the whole year.

However, considering that the seven months included the major part of the summer's vacation time and that a child which has not found employment at the commencement of vacation may have considerably more trouble afterwards in securing work, further that the superintendent of schools at Duluth, together with the truant officer, rigorously enforces the law of school attendance and but sparingly grants excuses, it may be inferred that child labor at Duluth has decreased since 1905.

The lumber and timber industry in 1906 ranked first in importance and furnished work to 14.7 per cent of all wage earners enumerated. Including the wage earners of planing mills and sash, door and blind factories it will be seen that they in the aggregate made 18 per cent of all wage earners.

Of the manufacturing industries second in importance to the city, as far as wage earners are concerned, was railroad work in shops, roundhouses and in coach and car repairing, for it furnished the means of support to 552 wage earners, or 6.4 per cent of the total.

For the ore docks are 421 wage earners shown, or 4.8 per cent of the total.

Duluth in its wholesale mercantile establishments furnished employment to 13.9 per cent of all wage earners and 5.4 per cent were employed in retail mercantile establishments, 3.4 per cent in department stores and 2.1 per cent in the service of telegraph, telephone and messenger service companies.

All other industries which separately employed more than one per cent of the total wage earners are enumerated below.

	Percent.
Machine shops, foundries, etc.....	4.3
Laundries	3.9
Coal docks	3.4
Blast furnace	3.2
Street railway shop work.....	2.5
Railroad work in terminal yards.....	2.4
Clothing and garment manufacturing.....	2.0
Printing trades	1.7
Grain elevators	1.6
Matches, manufacturing	1.4
Railroad switch yard work	1.1

In the report for the year 1906 for the first time appears a new industry, that of manufacturing sandpaper and abrasives, the material for which is found in our own state; the industry as yet is small, but gives promise of expansion.

The great change in the number of night workers and Sunday workers since 1905 seems to be due principally to additional night work in sawmills and in railroad shops and roundhouse work, as well as Sunday operations at the blast furnace at West Duluth.

TABLE I.—FACTORY INSPECTION REPORT, CITY OF DULUTH, 1905 AND 1906.

(Included are West Duluth, New Duluth and Proctor Knott.)

INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults		Under 16 Years	Fe- male	Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons	No. of Inspections	Total Number	Adults		Under 16 Years	Fe- male	Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons	No. of Inspections
		Male	Fe- male									Male	Fe- male							
Boat building	2	34	34	.....	.....	34	.....	1	1	1	75	75	.....	.....	75	75	.....	.....	.....	.....
Boots and shoes, factory product	1	33	23	12	3	33	.....	.....	.....	.....	1	69	42	26	1	69	42	26	1	.....
Brass casting and brass finishing	1	8	8	.....	.....	8	.....	.....	.....	.....	1	19	19	.....	.....	19	19	.....	.....	.....
Bread and other bakery products	8	78	69	29	.....	78	.....	1	.....	.....	6	60	45	24	.....	60	45	24	.....	.....
Bottling beer	3	16	16	.....	.....	16	.....	.....	.....	.....	2	55	48	.....	.....	55	48	.....	.....	.....
Boxes, wood, packing	3	74	64	10	.....	74	.....	1	.....	.....	2	85	85	.....	.....	85	85	.....	.....	.....
Brewing	2	101	104	.....	.....	101	.....	2	3	.....	2	91	78	12	.....	91	78	12	.....	.....
Cigars	5	106	86	16	2	106	.....	.....	.....	.....	6	91	78	1	.....	91	78	1	.....	.....
Clothing and garments, factory product	4	163	22	137	1	163	.....	3	.....	.....	4	178	28	150	.....	178	28	150	.....	.....
Clothing, men's, custom work and repairing	6	50	50	.....	.....	50	.....	.....	.....	.....	9	93	82	11	.....	93	82	11	.....	.....
Confectionery	4	91	47	48	1	91	.....	1	.....	.....	4	41	24	17	.....	41	24	17	.....	.....
Copperage	1	104	106	.....	4	104	.....	30	.....	.....	1	30	27	.....	.....	30	27	.....	.....	.....
Creamery products	1	45	42	3	.....	45	.....	15	.....	.....	1	47	44	3	.....	47	44	3	.....	.....
Docks, coal	4	405	405	.....	.....	405	.....	5	.....	.....	4	300	300	.....	.....	300	300	.....	.....	.....
Docks, iron ore	1	360	360	.....	.....	360	.....	175	.....	.....	1	421	421	.....	.....	421	421	.....	.....	.....
Docks, iron ore	2	19	10	9	.....	19	.....	.....	.....	.....	2	18	9	9	.....	18	9	9	.....	.....
Dyeing and clothes cleaning	3	44	43	1	.....	44	.....	.....	.....	.....	1	11	11	.....	.....	11	11	.....	.....	.....
Electric machinery, construction and repair	3	44	43	1	.....	44	.....	.....	.....	.....	1	11	11	.....	.....	11	11	.....	.....	.....
Electric light, heat and power—buildings	12	93	93	.....	.....	93	.....	26	.....	.....	10	78	78	.....	.....	78	78	.....	.....	.....
Electric light, heat and power—public service	1	20	20	.....	.....	20	.....	16	.....	.....	1	41	41	.....	.....	41	41	.....	.....	.....

Flour and grist milling	1	24	24	24	6	1	1	17	17	6	1
Products	5	303	289	4	4	4	6	376	376	1	1
Foundry and machine shop	1	9	2	7							
Fur goods	3	37	37		1	1	3	36	36		
Furniture and cabinet	6	260	260		9	9	10	147	147	1	8
Grain cleaning and storing	1	15	15	10	5	5	1	40	6	34	
Hosiery and knit goods	1	356	356		68	6	1	282	282		231
Iron, blast furnace	1	32	32	31	34	34	10	34	34		
Junk sorting and packing	9	236	52	184	32	32	10	343	112		
Laundry work	1	27	21	5	1		1	27	19	7	
Lithographing	7	287	283	4	4	3	7	286	285		1
Lumber, planing mill prod-	1,018	1,015	64	137	215	25	1	1,299	1,299	612	33
uct, incl. sash, door and	1	251	64	137	1	1	1	121	45	58	1
Matches	5	62	62				4	57	57		
Plumbing and gas and steam	14	240	200	28	10	2	6	152	134	13	5
Printing	3	412	412				5	552	552		238
Railroad work, shops and	6	82	82				9	101	101		28
round houses	6	308	307	1			3	215	215		
Railroad work, track repair-	1	9	9				2	35	35		
ing and switch blocking	5	71	71	5	5	5	5	70	70		
Railroad work, terminal	1	6	6		5		1	5	5		
yards	1	25	25		1	1	1	26	26		
Saddlery and harness	1	6	6				1	19	19		
Sheet metal work and roofing	1	213	213				1	230	230		154
Show cases	1	7	5	2			1	7	5		
Slaughtering and meat pack-	1	10	10				1	11	11		
ing-wholesale	1	288	288				1	79	79		4
Stone crushing	5	375	144	191	27	13	5	304	118	180	1
Street railway, shop work	4	28	28		4		6	71	71		
Tents and awnings	31	483	337	113	14	19	33	479	391	88	
Wagons, carriages and	3	198	100	88	10		3	183	118	54	31
sleighs	35	1,213	1,094	107	12		33	1,227	1,120	104	5
Municipal work, street de-	3	22	22				1	91	91		2
partment, light and water.	3	22	22				1	6	6		
Department stores	3	22	22				1	6	6		
Express companies	3	22	22				1	6	6		
Retail mercantile establish-	3	22	22				1	6	6		
ments	3	22	22				1	6	6		
Telegraph, telephone and	3	22	22				1	6	6		
messenger companies	3	22	22				1	6	6		
Wholesale mercantile estab-	3	22	22				1	6	6		
lishments	3	22	22				1	6	6		
Inspections not specified	3	22	22				1	6	6		
Docks, freight	3	22	22				1	6	6		
Trunks and valises	3	22	22				1	6	6		

Table II. Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I.

CITY OF DULUTH.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Boat building	1	14	9	54	1	75	10	60
Boots and shoes, factory product	1	20	10	60	1	75	10	60
Brass casting and brass finishing	1	33	10	60	1	69	10	60
Bread and other bakery products	1	8	10	60	1	19	10	60
.....	4	47	9	54	6	69	10	60
.....	3	27	10	60	6	69	10	60
.....	1	4	11	66	.....	.....	.....	.....
Bottling	1	8	9	54	.....	.....	.....	.....
.....	2	8	10	60	.....	.....	.....	.....
Boxes, wood, packing	3	74	10	60	.....	.....	.....	.....
Brewing	2	101	10	60	.....	55	16	60
Cigars	5	106	8	48	.....	85	10	60
Clothing, factory product...	3	146	9	54	.....	91	8	48
.....	1	17	10	60	.....	40	9	54
.....	.....	.....	.....	.....	1	104	8½	51
Clothing, men's, custom work and repairing.....	6	50	8	48	1	12	9	54
.....	.....	.....	.....	.....	8	81	10	60
Confectionery	4	91	10	60	4	41	10	60
Cooperage	1	104	10	60	1	30	10	60
Creamery products	1	45	10	60	1	47	10	60
Docks, coal	1	150	9½	57	1	145	9½	57
.....	3	255	10	60	2	88	10	60
.....	.....	.....	.....	.....	1	67	8	48
Docks, ore	1	350	10	60	1	421	10	60
Dyeing and clothes cleaning.	1	6	9	54	1	7	9	54
.....	1	13	9	57	1	11	10	60
Electrical machinery and construction	1	12	8	48	1	11	8	48
.....	1	4	9	54	.....	.....	.....	.....
.....	1	28	8-9	48-54	.....	.....	.....	.....
Electric light, heat and power-buildings.....	1	4	8	48	.....	.....	.....	.....
.....	3	17	10	60	2	12	10	60
.....	7	67	11	66	7	61	11	66
.....	1	5	12	72	1	5	12	72
Electric light, heat and power-public service	1	20	8	56	1	41	8	48
Flour and grist mill products	1	24	10	60	1	17	10	60
Foundry and machine shop products	4	174	9	54	3	94	9	54
.....	1	129	10	60	3	282	10	60
Furs	1	9	8	51	.....	.....	.....	.....
Furniture and cabinet making	2	13	8	48	2	16	8	48
.....	1	24	10	60	1	20	10	60
Grain cleaning and mixing..	6	260	10	60	2	22	10	60
.....	.....	.....	.....	.....	8	125	9	54
Hosiery and knit goods.....	1	15	10	60	1	40	10	60
Iron, pig	1	356	11	66	1	282	10-12	60-72
Junk sorting and packing...	1	32	9½	57	1	34	9½	57
Laundry work	2	20	9	54	.....	.....	.....	.....
.....	1	29	9½	57	2	30	9½	57

TABLE II—CITY OF DULUTH—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Lithographing	4	178	10	60	6	302	10	60
Lumber, planing mill products, inc. sash, door and blind mfg.	2	9	11	66	2	11	11	66
Lumber and timber	1	27	9	53	1	27	9	52
Matches	7	287	10	60	7	286	10	60
Plumbing and gas and steam fitting	8	1,018	10	60	8	1,299	10	60
Printing	1	251	10½	63	1	121	10½	63
Railroad work—shops and round houses	5	62	8	48	1	12	8	48
Railroad work—track work and switch blocking	3	83	8	48	3	45	8	48
Railroad work—terminal yards	1	28	7½	52½	1	106	8	48
Saddlery and harness	3	41	9	53	1	24	9	52
Sheet metal working and roofing	7	88	9	54	1	13	9	53
Stone crushing	1	42	9	54	1	9	9	54
Street railway work—shop	2	370	10	60	5	552	10	60
Tents and awnings	6	82	10	60	9	101	10	60
Wagons and carriages	2	149	9	54	2	155	9	54
Department stores	4	159	10	60	1	60	10	60
Express companies	1	9	10	59	2	35	10	60
Retail mercantile establishments	4	66	8	48	4	65	8	48
Telegraph, telephone and messenger companies	1	5	9	54	1	5	10	60
.....	1	6	9	54	1	5	9	54
.....	1	25	10	60	1	26	10	60
.....	1	6	10	60	1	19	8	48
.....	1	213	10	60	1	220	10-11	60-65
.....	1	7	10	60	1	7	10	60
.....	1	10	10	60	1	11	10	60
.....	1	288	8	48	1	79	8	48
.....	1	102	8	52	2	203	9	59
.....	1	139	8	53	1	48	9½	57
.....	2	123	9	57	1	32	9½	60
.....	1	11	9½	57	1	21	10	63
.....	4	28	10	60	6	71	10	60
.....	3	48	8	48	2	16	8	48
.....	1	29	8	51	2	19	9	54
.....	6	120	9	54	11	253	9	57
.....	4	47	9½	57	1	10	9½	60
.....	1	11	9½	60	3	32	10	60
.....	3	59	10	60	8	91	10	63
.....	3	35	10	63	2	12	10½	63
.....	2	14	10½	63	1	7	10½	66
.....	1	23	10½	67½	1	5	11	66
.....	1	9	11	66	1	23	11	69
.....	1	18	11	67	1	11	12	72
.....	1	4	11	68	1	11	12	72
.....	1	18	12	72	1	11	12	72
.....	1	80	8½	51	1	81	8	49
.....	1	73	8½	52½	1	37	9	54
.....	1	45	9	54	1	66	10	60

TABLE II—CITY OF DULUTH—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Wholesale mercantile establishments	1	17	9	49	.....	.....	.....	.....
	1	83	9	50	.....	.....	.....	.....
	1	12	9	51	.....	.....	.....	.....
	1	5	9	52	.....	30	9	53
	1	724	9	54	1	7	9	52
	8	45	9½	57	5	158	9	54
	19	309	10	60	2	36	9½	57
	1	18	8-10	48-60	1	364	10	60
	1	18	8	48	1	12	10	63
Inspections, not specified....	1	4	10-12	60-72	1	7	8	48
	.....	.....	.....	.....	1	19	9	53
	.....	.....	.....	.....	4	35	9	54
	.....	.....	.....	.....	10	199	10	60
Total	236	8,752	.....	.....	244	8,802	.....	.....

TABLE III. Number of Wage Earners and Specified Daily and Weekly Working Time in Hours for All Industries and Occupations Enumerated in Table I.

CITY OF DULUTH.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	28	.....	Less than 48	.....	45
8	1,065	556	48	750	611
8½	80	104	49	17	.....
9	2,030	1,272	50	83	.....
9½	325	335	51	50	104
10	4,412	5,777	52	135	58
10½	288	140	53	207	62
11	467	100	54	1,558	636
11½	.....	.....	55	20	16
12	17	16	56	498	546
Over 12	.....	.....	57	211	208
8 and 9	28	.....	59	4,369	5,450
8 and 10	18	.....	60	300	257
10 and 11	.....	220	63	436	94
10 and 12	4	282	66	41	.....
			67	4	21
			69	4	16
			72	23	.....
			48 to 54	28	.....
			48 to 60	18	.....
			60 to 66	.....	220
			60 to 72	4	232
Total.....	8,752	8,802	Total.....	8,752	8,802

FACTORY INSPECTION

IN THE

RURAL DISTRICTS

FACTORY INSPECTION

IN THE RURAL DISTRICTS

In the factory inspection reports of the rural districts are comprised all inspections made outside of the three principal cities, Duluth, Minneapolis and St. Paul. Two systematic inspections have been made, one in 1905 and one in 1906; aside from these the inspectors frequently had to visit towns in the rural district for one or another reason, such as enforcement of child labor regulations, investigation of accidents to working people, or railroad switch yard inspection.

All employees of the Bureau of Labor participated in the inspection work in the rural districts and a separate report by each inspector respecting his work will be found in this volume.

Attention is called to an apparent falling off in one particular industry since 1905, the industry of Canning, which appears in the different reports under the heading of: Canning, Corn.

For the year 1905 there were reported 10 establishments and 805 wage earners, but in the summary report for 1906 is shown only one establishment with 125 wage earners. The reason for this difference is that the canning factories in 1906, with the exception of the one enumerated in the report, were not in operation at the time of the factory inspections in the rural districts. The inspection of the other canneries has been made later and record of the same will appear in the following report of this department.

The inspections in 1905 extended over 149 rural towns and numbered in their aggregate 2,276 inspections and showing up 30,612 wage earners, composed of 27,921 adult males, 2,319 adult females, 294 boys and 78 girls under 16 years of age. The wage earners in the rural districts represented 28.7 per cent of all the wage earners reported for the entire state for the specified industries, trades and occupations. In 1906, the inspections extended to 156 towns; they numbered 2,335 in all, but they showed

a decrease of six-tenths of one per cent in wage earners' numbers, which were 30,418 in all, or 27,802 adult males, 2,293 adult females, 275 boys and 48 girls under 16 years of age. Their aggregate represented 30.8 per cent of the total wage earners for the entire state in 1906.

It will be observed that while there was an increase in the number of inspections and consequently of places where people are employed, the decrease in their number was all along the line, in male adults, female adults, and boys and girls of minor age.

In 1905 regular night work represented a fraction over 10 per cent of the regular day wage earners, and the regular Sunday workers represented a fraction over 3 per cent, their number being 3,070 and 1,004 respectively; in 1906, however, night workers in their aggregate had been reduced to 2,738 persons and Sunday workers had increased to 1,254, forming 9.0 and 4.0 per cent respectively of all day workers.

Child labor, which formed 1.2 per cent of the total labor in 1905, during the year has been reduced 13 per cent, and the department emphasizes that the ready assistance of the school authorities rendered the labor bureau helped to accomplish these results.

The leading industry in the rural district with reference to the largest number of wage earners was that of lumber and sawmill work, exclusive of planing mill and sash, door and blind manufacturing. In 45 sawmills and their lumber yards where 7,509 wage earners were employed in 1905, these numbers were reduced in 1906 to 42 establishments and 6,299 wage earners. This being a decrease in the number of wage earners of 16 per cent.

Railroad shop work and roundhouse work was carried on in 41 establishments in the rural district in 1905, and in 40 in 1906. In the former year 2,720 wage earners were reported and for the latter an increase in their number of 18 per cent, being in their aggregate 3,207 wage earners.

Flour and grist milling was represented by 160 establishments in 1905 and 165 in 1906, the wage earners were 1,889 and 1,917 respectively, or an increase of one per cent.

Planing mills and sash, door and blind factories took fourth place in 1905 with regard to number of wage earners, but in 1906 they took third place on account of their increase from 1,728 and 2,176 and increase in establishments of from 72 to 78.

For the printing trades were reported 276 establishments and 1,424 wage earners in 1905, and 269 establishments and 1,494 wage earners in 1906.

While there was a reduction of 7 shops, there was an increase of 4.9 per cent in wage earners.

Cigar factories during the year showed a decrease in wage earners from 791 in 1905 to 765 in 1906, but an increase in shops from 150 to 154. Of foundry and machine shops 86 were reported for the first year with 678 wage earners, and 96 for the latter year with 774 wage earners, an increase of 14 per cent.

In 1905 were enumerated 8 stone quarries, having 699 wage earners and in 1906 there were 15 with 874 employes, or an increase over previous year of 25 per cent.

Laundry work was done in 1905 by 79 establishments and by 84 in 1906, the former had 589 wage earners and the latter 623, being an increase of 4 per cent.

Other inspections by the department, which involved considerable work and time were those of grain elevators, of which 307 had been inspected in 1905 and 326 in 1906, of country creameries 104 and 108 were inspected in each of the respective years, as also 266 railroad switch yards in 1905 and 265 in 1906.

REPORT OF FACTORY INSPECTOR F. E. HOFFMANN.

St. Paul, September 26, 1906.

Mr. W. H. Williams, Commissioner of Labor.

Dear Sir: I herewith present my report of factory inspections in my district.

During the year 1905 I visited 21 cities in which I inspected 518 establishments, employing 9,112 wage earners, of which 7,975 were men, 1,044 were women and 93 were children under 16 years of age.

I found it necessary to issue 16 orders to improve sanitary conditions, for safeguarding of machinery and for improved fire protection, besides making many suggestions of minor importance. In all my visits I was shown the utmost courtesy by employers and employes alike.

During the year 1906 I visited 21 cities, in which I inspected 547 establishments, employing 9,535 wage earners of which 8,257 were men, 1,150 were women and 128 were children under 16 years of age.

During this visit I found that the suggestions made the previous year had invariably been carried out, but I found it necessary to issue 26 orders, most of these were for chemical fire extinguishers or stand-pipes made necessary by section 1817 of the Revised Code.

CHILD LABOR.

The child labor laws were given special attention by me during my visits. I sought to secure the co-operation of employers and employes in the enforcement of this law rather than resort to prosecution. The co-operation of the school authorities also was enlisted with gratifying results.

Many children were found at work without employment certificates, but they had falsified their age when making application for employment.

To remedy this I suggested to the employers that applicants be required to bring an affidavit from their parents or guardians attesting to their age.

This suggestion was adopted by a large number of the largest employers in my district, and has materially decreased the number of children employed without certificates.

I found a number of children employed in hotels and offices.

I was informed by one county attorney that such work was not prohibited under our laws, but I insisted on its provisions being enforced in these cases, with success.

The law should be amended to cover this and all classes of employment.

FIRE PROTECTION.

Few recommendations were necessary in the enforcement of the provisions of this law, as employers were generally anxious to grant all reasonable protection.

I beg to call your attention to the repeal of the provision in the law of 1893 which provided that where permanent improvements were ordered by the inspector, the cost should be borne by the owner of the building. The law should be amended to compel the owner of the building to provide fire escapes, stairways and water-closets.

I am also of the opinion that where a large force of employes are employed above the third floor of a building, an iron stairway enclosed in a brick wall, would be far preferable to the outside fire escape, and would recommend this to your consideration.

SANITATION.

Sanitary conditions were generally satisfactory, few changes being necessary.

In several instances I found a disposition on the part of employers to overcrowd the workroom. I would recommend a law defining the requisite dimensions of a room for good ventilation, allowing a stipulated number of cubic feet of air space for each individual employed.

BAKERIES.

The bakeries were generally in fair condition, except in basement bakeries. It is my conviction after consulting with employers and employes that a law prohibiting the use of basements for the manufacture of food products is not only advisable but would receive the support of most of the owners of such places. It is my experience that it is impossible to keep this class of bakeries in good sanitary condition.

That part of the law requiring the walls and ceilings to be whitewashed should be amended, as investigation has shown that the whitewash peels off the ceiling and drops onto the table or into the dough troughs.

Respectfully submitted,

(Sig.) FRANK E. HOFFMANN, Factory Inspector.

TABLE I.
Country District Inspected by F. E. Hoffman.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Number of Persons					Regular Sunday Work					Regular Night Work					Regular Night Work				
	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years
Brainerd—Crow Wing County.																				
Bottling	2	4	4																	
Bread & other bakery products	1	4	3																	
Brewing	1	5	5																	
Cement and cement sidewalks.	2	6	6																	
Cigars	1	2	2																	
Creamery	1	2	2																	
Electric lighting	2	10	9	1																
Flouring and grist mill products	2	103	103																	
Foundry & mach. shop products	2	103	103																	
Grain cleaning and storing.	2	8	3	5																
Laundry work	2	8	3	5																
Lumber, planing mill products.	2	128	128																	
Inc. sash, door and blind mfg.	3	35	35																	
Plumbing & steam & gas fitting	3	13	12	1																
Printing	1	34	34																	
Pulp mill	1	675	675																	
Railroad work—shop and round house	1	20	20																	
Railroad work—track repairing and switch blocking	3	20	20																	
Water works	36	1,047	1,089	71	1	23					26					1,417	1,403	12	2	
Total																				

Chatfield—Fillmore County.												
Blacksmithing & wheelwrighting	1	4	4	1	1	1	1	4	4	1	1	1
Bread & other bakery products	1	1	1	1	1	1	1	1	1	1	1	1
Cigars	1	3	3	1	1	1	1	2	2	1	1	1
Creamery products	1	2	2	1	1	1	1	2	2	1	1	1
Electric lighting	1	1	1	1	1	1	1	1	1	1	1	1
Flouring and grist mill products	1	1	1	1	1	1	1	1	1	1	1	1
Grain cleaning and storing	2	3	3	1	1	1	1	2	2	1	1	1
Printing	1	3	2	1	1	1	1	2	2	1	1	1
Railroad work—track repairing and switch blocking	1	4	4	1	1	1	1	4	4	1	1	1
Planing mill	1	1	1	1	1	1	1	1	1	1	1	1
Total	10	22	21	1	1	1	1	26	26	1	1	1
Preston—Fillmore County.												
Blacksmithing & wheelwrighting	1	1	1	1	1	1	1	1	1	1	1	1
Bread & other bakery products	1	1	1	1	1	1	1	1	1	1	1	1
Brewing	1	1	1	1	1	1	1	1	1	1	1	1
Creamery products	1	3	3	1	1	1	1	3	3	1	1	1
Electric lighting & waterworks	1	2	2	2	2	2	2	2	2	2	2	2
Flouring and grist mill products	1	3	3	1	1	1	1	5	5	1	1	1
Foundry & mach. shop products	1	3	3	1	1	1	1	3	3	1	1	1
Grain cleaning and storing	1	1	1	1	1	1	1	1	1	1	1	1
Printing	2	6	3	3	3	3	3	7	5	2	2	2
Railroad work—track repairing and switch blocking	1	3	3	1	1	1	1	4	4	1	1	1
Total	10	23	20	3	2	2	12	30	28	2	2	2
Rushford—Fillmore County.												
Bread & other bakery products	1	3	3	1	1	1	1	1	1	1	1	1
Brewing	1	2	2	1	1	1	1	2	2	1	1	1
Creamery products	1	1	1	1	1	1	1	1	1	1	1	1
Electric lighting & waterworks	1	1	1	1	1	1	1	2	2	1	1	1
Flouring & grist mill products	1	3	3	1	1	1	1	2	2	1	1	1
Foundry & mach. shop products	1	1	1	1	1	1	1	4	4	1	1	1
Hosiery & knit goods	1	20	5	15	1	1	1	20	2	18	1	1
Printing	1	4	4	1	1	1	1	4	3	1	1	1
Wagon and sleigh	1	6	6	1	1	1	1	6	6	1	1	1
Woolen goods	1	12	4	7	1	1	1	11	4	7	1	1
Grain cleaning and storing	1	1	1	1	1	1	1	2	2	1	1	1
Total	10	54	31	22	1	2	11	55	29	26	2	2

TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Total Number	Adults	Male	Fe- male	Under 16 Years	Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons	No. of Inspections	Total Number	Adults	Male	Fe- male	Under 16 Years	Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons	No. of Inspections
Spring Valley Fillmore County																				
Cigars	4	4								1										
Creamery products	4	4								1										
Electric lighting	1	3								1										
Flouring & grist mill products	1	4								1										
Foundry & mach. shop products	1	4								1										
Grain cleaning and storing	1	2								1										
Printing	1	1								1										
Railroad work—track repairing and switch blocking	4	5								4										
Total	2	7								2										
Cannon Falls—Goodhue County																				
Bread & other bakery products	1	1								1										
Canning—corn	1	100								1										
Cigars	1	3								1										
Creamery products	1	2								1										
Electric lighting	1	2								1										
Flouring & grist mill products	1	28								1										
Foundry & mach. shop products	1	3								1										
Grain cleaning & storing	1	3								1										
Leather tanning	1	4								1										
Printing	1	3								1										
Railroad work—track repairing and switch blocking	2	7								2										
Total	17	161								16										

Kenyon—Goodhue County.														
Blacksmithing & wheelwrighting	1	4	4	1	1	1	1	1	1	1	1	1	1	1
Bread and other bakery products	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Canning—corn	1	20	14	6	2	2	2	2	2	2	2	2	2	2
Creamery products	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Electric lighting	1	3	3	3	3	3	3	3	3	3	3	3	3	3
Flouring and grist mill products	1	6	6	6	6	6	6	6	6	6	6	6	6	6
Grain cleaning and storing	1	5	5	5	5	5	5	5	5	5	5	5	5	5
Laundry work	1	3	3	3	3	3	3	3	3	3	3	3	3	3
Printing	1	3	3	3	3	3	3	3	3	3	3	3	3	3
Railroad work—track repairing and switch blocking	2	11	11	11	11	11	11	11	11	11	11	11	11	11
Total	14	58	49	9	6	2	13	41	37	4	2	2	2	1
Pine Island Goodhue County.														
Cigars	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Creamery products	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Flouring & grist mill products	1	4	4	4	4	4	4	4	4	4	4	4	4	4
Grain cleaning and storing	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Printing	1	2	2	2	2	2	2	2	2	2	2	2	2	2
Railroad work—track repairing and switch blocking	2	6	6	6	6	6	6	6	6	6	6	6	6	6
Total	7	16	16	16	1	2	8	17	17	1	1	1	1	2
Red Wing—Goodhue County.														
Blacksmithing & wheelwrighting	1	7	7	7	7	7	7	7	7	7	7	7	7	7
Boat building	1	21	20	1	1	1	1	1	1	1	1	1	1	1
Boots and shoes—factory product	1	40	21	19	4	4	4	4	4	4	4	4	4	4
Bottling	1	4	4	4	4	4	4	4	4	4	4	4	4	4
Bread and other bakery products	3	12	11	1	1	1	1	1	1	1	1	1	1	1
Brewing	2	14	14	14	14	14	14	14	14	14	14	14	14	14
Brick and tile	2	27	26	1	1	3	2	2	2	2	2	2	2	2
Cement stone and cement blocks	1	8	8	8	8	8	8	8	8	8	8	8	8	8
Cigars	3	23	21	2	2	2	2	2	2	2	2	2	2	2
Cooperage	1	17	17	17	17	17	17	17	17	17	17	17	17	17
Electric light and heat and power	1	8	8	8	8	8	8	8	8	8	8	8	8	8
Flouring and grist mill products	2	67	65	2	7	7	7	7	7	7	7	7	7	7
Foundry & mach. shop products	1	8	8	8	8	8	8	8	8	8	8	8	8	8
Fur goods	1	10	3	7	10	3	9	3	3	3	3	3	3	3
Furniture and cabinet making	2	110	110	110	110	110	110	110	110	110	110	110	110	110
Hats and caps	1	20	13	7	2	2	2	2	2	2	2	2	2	2
Laundry work	1	31	5	26	4	1	1	1	1	1	1	1	1	1
Linseed oil and linseed cake	1	18	17	1	1	1	1	1	1	1	1	1	1	1
Lumber and timber, saw mill	1	125	125	125	125	125	125	125	125	125	125	125	125	125
Malting	2	31	31	31	31	31	31	31	31	31	31	31	31	31

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Wage Earners				No. of Inspections	Regular Sunday Work			No. of Inspections	Wage Earners				No. of Inspections	Regular Sunday Work			No. of Inspections	Wage Earners				No. of Inspections	Regular Sunday Work			No. of Inspections																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Caledonia—Houston County.										
Blacksmithing & wheelwrighting	1	10	10						7	7
Cigars	2	5	6						5	5
Creamery products	1	2	2						1	1
Electric lighting and waterworks	1	2	2						1	1
Flouring and grist mill products	1	2	2						1	1
Grain cleaning and storing	2	3	3						1	1
Printing	2	6	6						6	6
Railroad work—track repairing and switch blocking	1	4	4						3	3
Planing mill										
Total	11	33	31	2	2	11	33	32	1	2
Austin—Mower County.										
Fibre goods										
Bread & other bakery products	2	6	6						8	1
Brick and tile	1	25	20						5	
Cement, lime and plaster	1	8	6							
Cigars	1	10	10						9	
Electric lighting and waterworks	1	9	8						1	
Flouring and grist mill products	1	5	5						8	
Foundry & mach. shop products	1	11	3						7	
Laundry work	1	5	5						3	
Lumber, planing mill product, inc. sash, door and blind mfg.	1	4	4						11	
Monuments and tombstones									3	
Printing	4	23	15						21	
Railroad work—shop and round-house	1	54	54						36	
Railroad work—track repairing and switch blocking	4	12	12						76	
Slaughtering and meat packing, wholesale	1	179	169						21	
Wood turning and carving	1	3	3						2	
Total	22	376	342	19	15	26	422	370	47	12
Rochester—Olmsted County.										
Bottling	1	3	3							
Bread & other bakery products	2	5	5						3	
Brewing	1	23	23						26	
Cigars	4	36	36						30	
Creamery products	2	3	3						4	
Electric lighting	1	8	8						7	
Flouring & grist mill products	2	19	18						11	

TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Cigars	6	28	35	25	32	1	2				6	25	24	1				
Confectionary	1	13	12	12								12	12					
Cooperage	1	1	7	9							1	6	6					
Creamery products	1	6	6								1	6	6					
Electric lighting and power	2	6	6								2	85	85					3
Flouring & grist mill products	2	71	71								2	95	95					26
Foundry & mach. shop products	2	26	25								3	26	26					1
Furniture & cabinet making	1	40	39								1	55	55					
Grain cleaning & storing	1	10	10								4	7	7					
Laundry work	2	13	5								2	10	5					
Lumber, planing mill products, incl. sash, door & blind	1	15	15								1	13	13					
Musical instruments	1	20	20								1	20	20					
Printing	6	30	26								6	23	24					
Railroad work—track repairing																		
Railroad work—block.	3	16	16								3	22	22					2
Rattan and willow-ware	2	18	13								1	7	6					
Wagon, carriage and sleigh	1	15	15								1	9	9					
Woodenware	1	24	24															
Woollen goods	1	33	18									28	12					
Water-works	1	2	2								1	2	2					1
Total	50	761	563	181	8	23	9	2	46	554	448	94	7	5	30			
Northfield—Rice County.																		
Bread & other bakery products.	2	3	3								2	3	3					
Brewing	1	1	1								1	2	2					
Cigars	1	10	10								1	8	7					
Creamery products	1	2	2								1	2	2					
Electric lighting	1	3	3								1	3	3					2
Flouring & grist mill products.	1	6	6								1	9	8					1
Foundry & mach. shop products.	3	8	8								3	8	8					
Grain cleaning & storing	3	6	6								2	6	5					
Hosiery and knit goods.	1	13	1								1	10	9					
Laundry work	1	5	1								1	8	3					
Printing	2	16	12								2	23	17					1
Railroad work—track repairing																		
and switch blocking.	2	8	8								2	9	9					1
Sheet metal and cornice working	1	6	6								1	6	6					
Waterworks	1	2	2								1	2	2					2
Fibre goods											1	18	18					1
Total	21	89	69	20				2	4	21	111	91	20					7

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners				No. of Inspections	Wage Earners				No. of Inspections	Wage Earners				No. of Inspections	Wage Earners				No. of Inspections
	Total Number	Adults	Under 16 Years	Fe- male		Total Number	Adults	Under 16 Years	Fe- male		Total Number	Adults	Under 16 Years	Fe- male		Total Number	Adults	Under 16 Years	Fe- male	
Owatonna—Steele County.																				
Agricultural mach. & impl.....	3	52	1	.....	2	1	1	.....	.....	1	2	50	49	1	.....	1	.....	.....	.....	1
Blacksmithing & wheelwrighting.....	1	7	.....	.....	1	.....	.....	.....	.....	.....	1	5	5	.....	.....	.....	.....	.....	.....	1
Bread & other bakery products.....	2	6	.....	.....	1	.....	.....	.....	.....	.....	2	4	4	.....	.....	.....	.....	.....	.....	.....
Brewing	1	9	.....	.....	1	.....	.....	.....	.....	.....	1	8	8	.....	.....	.....	.....	.....	.....	.....
Canning—corn	1	40	25	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cigars	5	23	.....	.....	1	.....	.....	.....	.....	.....	.....	22	18	1	.....	.....	.....	.....	.....	.....
Creamery products	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....
Electric lighting & heat'g & gas.....	1	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	4	.....	.....	.....	.....	.....	.....	.....
Flouring & grist mill products.....	3	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	20	20	.....	.....	.....	.....	.....	.....	.....
Foundry & mach. sho- products.....	3	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	13	.....	.....	.....	.....	.....	.....	.....
Grain cleaning & storing	3	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	5	.....	.....	.....	.....	.....	.....	.....
Laundry work	2	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	5	8	.....	.....	.....	.....	.....	.....
Leather tanning	2	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	10	.....	.....	.....	.....	.....	.....	.....
Lumber, planin- mill products.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	11	.....	.....	.....	.....	.....	.....	.....
Incl. sash, door and blinds.....	5	24	.....	.....	.....	.....	.....	.....	.....	.....	.....	13	15	4	.....	.....	.....	.....	.....	.....
Printing	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	4	.....	.....	.....	.....	.....	.....	.....
Railroad work—track repairing and switch blocking.....	3	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	12	.....	.....	.....	.....	.....	.....	.....
Rendering	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....
Waterworks	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Retail mercantile establishments.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	19	6	11	2	.....	.....	.....	.....	.....
Total	38	238	198	39	1	8	8	.....	.....	38	220	190	25	4	1	6	.....	.....	.....	6

Lake City—Wabasha County															
Blacksmithing & wheelwrighting	2	8	8	2	2	2	2	2	2	2	2	2	2	2	2
Bread & other bakery products.	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Cigars	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Electric lighting & waterworks.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flouring & grist mill products.	1	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Foundry & mach. shop products	1	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Grain cleaning & storing.	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Laundry work	1	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Monuments and tombstones.	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Printing	2	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Railroad work—track repairing	1	10	10	10	10	10	10	10	10	10	10	10	10	10	10
and switch blocking.	1	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Wagon and sleigh.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	16	165	160	5	6	4	16	138	191	7	10	107	98	8	14
Wabasha—Wabasha County.															
Bread & other bakery products.	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Cigars	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Electric lighting	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Flouring & first mill products.	1	32	30	2	5	1	1	31	29	2	1	2	2	6	2
Lumber, planing mill products.	1	66	65	1	1	1	1	41	40	1	1	5	5	1	1
Incl. sash, door and blinds.	2	8	2	6	1	1	2	8	3	1	1	1	1	1	1
Printing	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Railroad work—shop and round-house	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Railroad work—track repairing	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10
and switch blocking.	2	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Total	10	130	121	9	9	7	10	107	98	8	1	14	14	6	6
Stillwater—Washington County.															
Agricultural mach. and impl.	1	385	380	5	3	1	1	4	420	5	1	3	3	5	5
Blacksmithing & wheelwrighting	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Boat building	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Boots & shoes, factory product	1	26	18	7	1	1	2	188	101	78	8	1	1	1	1
Bottling	1	2	2	2	2	2	2	4	4	4	4	4	4	4	4
Boxes—paper	2	104	95	9	2	1	1	14	4	9	1	1	1	1	1
Boxes—wood—packing	3	22	16	6	2	1	2	106	93	1	12	1	1	2	2
Bread & other bakery products.	1	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Brewing	1	20	19	1	1	1	1	15	11	4	1	1	1	1	1
Carpets and rugs.	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Cigars	1	70	11	58	1	1	1	74	14	60	2	2	2	2	2
Clothing—factory products	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Creamery products	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1935										1936																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
	Wage Earners					No. of Inspections	Wage Earners					No. of Inspections	Wage Earners					Regular Sunday Work Number of Persons	Regular Night Work Number of Persons	Regular Sunday Work Number of Persons	Regular Night Work Number of Persons																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Winona—Winona County.

[illegible]

TABLE III. SUMMARY OF INSPECTIONS BY INDUSTRIES.

Country Districts Inspected by F. E. Hoffmann.

INDUSTRIES	1935										1936											
	No. of Inspections			Wage Earners						Regular Night Work Number of Persons	Regular Sunday Work Number of Persons	No. of Inspectors			Wage Earners						Regular Night Work Number of Persons	Regular Sunday Work Number of Persons
	Total Number			Adults		Under 16 Years						Total Number			Adults		Under 16 Years					
		Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male			Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male		Fe- male
Agricultural mach. and impl.....	6	518	511	7	.....	.....	.....	.....	.....	6	3	6	.....	.....	548	540	6	.....	.....	5	7
Automobile and bicycle repairing.....	1	2	2	.....	.....	.....	.....	.....	.....	.....	.....	2	6	6	.....	.....	.....	.....	.....	.....	.....
Blacksmithing & wheelwrighting.....	13	71	71	.....	.....	.....	.....	.....	.....	.....	.....	15	79	79	.....	.....	.....	.....	.....	.....	.....
Boat building.....	2	27	26	1	.....	.....	.....	.....	.....	.....	.....	2	30	29	.....	.....	.....	.....	.....	.....	.....
Boots and shoes, factory product.....	4	315	186	105	12	12	.....	.....	.....	.....	.....	6	524	286	207	23	8	.....	.....	.....	.....
Bottling.....	9	31	29	2	.....	.....	.....	.....	.....	.....	.....	10	39	38	1	.....	.....	.....	.....	.....	.....
Boxes—wood—packing.....	2	104	95	.....	.....	.....	.....	.....	.....	.....	.....	2	106	93	1	12	.....	.....	.....	.....	.....
Bread & other bakery products.....	32	194	183	9	2	2	.....	.....	.....	.....	.....	34	89	83	6	.....	.....	.....	.....	.....	.....
Brewing.....	14	116	116	.....	.....	.....	.....	.....	.....	.....	.....	14	124	124	.....	.....	.....	.....	.....	.....	.....
Brick and tile.....	5	190	183	.....	.....	.....	.....	.....	.....	.....	.....	4	73	70	1	2	.....	.....	.....	.....	.....
Canning—corn.....	4	306	144	161	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carpet cleaning.....	2	9	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carpets and rugs.....	2	26	22	3	.....	.....	.....	.....	.....	.....	.....	3	26	18	5	3	.....	.....	.....	.....	.....
Cement, lime and plaster.....	1	22	22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cement stone and cement side-walk.....	1	8	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cigars.....	39	210	190	16	.....	.....	.....	.....	.....	.....	.....	2	14	14	.....	.....	.....	.....	.....	.....	.....
Clothing, factory product.....	1	70	11	58	.....	.....	.....	.....	.....	.....	.....	40	198	174	15	8	1	.....	.....	.....	.....
Coffee roasting, spices and extracts.....	1	8	4	.....	.....	.....	.....	.....	.....	.....	.....	1	74	14	60	.....	.....	.....	.....	.....	.....
Confectionery.....	1	116	33	74	.....	.....	.....	.....	.....	.....	.....	2	68	11	42	2	13	.....	.....	.....	.....
Cooperage.....	3	41	41	.....	.....	.....	.....	.....	.....	.....	.....	4	47	46	1	1	.....	.....	.....	.....	.....
Creamery product.....	18	44	37	7	.....	.....	.....	.....	.....	.....	.....	19	55	44	10	1	.....	.....	.....	.....	.....
Electric lighting.....	12	36	36	.....	.....	.....	.....	.....	.....	.....	.....	12	33	33	.....	.....	.....	.....	.....	.....	.....
Electric lighting & water works.....	6	21	21	.....	.....	.....	.....	.....	.....	.....	.....	6	21	20	1	.....	.....	.....	.....	.....	.....
Electric light, heat and power—buildings.....	4	22	21	1	.....	.....	.....	.....	.....	.....	.....	4	17	17	.....	.....	.....	.....	.....	.....	.....

TABLE III.—Continued.

INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Adults			Under 16 Years		Regular Night Work		Regular Sunday Work		Total Number	Adults			Under 16 Years		Regular Night Work		Regular Sunday Work		Total Number
	Male	Fe- male		Male	Fe- male	Number of Persons	Number of Persons	Number of Persons	Number of Persons		Male	Fe- male		Male	Fe- male	Number of Persons	Number of Persons	Number of Persons	Number of Persons	
Electric power plant—street car service.....	34	34				3	18	1	37	37	37	20	1			3	4	3	82	2
Fibre goods.....	106	65	40			15	1	2	102	81	412	10	1			91	3	1	1	
Flouring and grist mill products.....	400	391	8	1		8	29	33	368	367	367	1				3	3	1	1	
Foundry & mach. shop products.....	284	283	1			3	1	5	48	48	30									
Fur goods.....	55	19	36			2	1	3	162	160	18	30								
Furniture and cabinet making.....	130	149		1		1	1	3	12	12		2								
Gas, illuminating.....	9	9						1	58	10	46									
Gloves and mittens.....	39	6	32					45	83	83										
Grain cleaning and storing.....	86	86						1	22	12	10									
Hats and caps.....	20	13	7					2	30	3	27									
Hosiery and knit goods.....	33	6						19	216	60	155	1								
Laundry work.....	210	47	162			1		3	13	13										
Leather tanning.....	12	11						1	21	20	1									
Lumber.....	18	17				4	1	1												
Luncheon and unseed cake.....	853	840				13	12	19	597	582	3	12								
Lumber, planing mill products.....	1,093	1,064	2	11		14	12	8	976	976		6								
Machine and blind mfg.....	42	42	2	7		14	14	3	38	38										
Mailing.....	82	41				1	1	4	91	91	38									
Medicines and drugs.....	10	10						3	10	10										
Monuments and tombstones.....																				

	518	9,112	7,975	1,044	69	24	280	224	547	9,535	8,257	1,150	101	27	3.3	267
Musical instruments	1	20	20	20			1	1	1	391	291	1	1			291
Plumbing and steam fitting	6	62	62	4			1	1	3	54	27	1	1			27
Pottery and stoneware	4	301	395	337	2		11	11	4	332	339	216	7	2		12
Printing	60	477	337	138			7	7	59	654	329	32	1			10
Pulp-wood	1	34	34				6	9	1	32	32					16
Railroad work—shop and round-house	6	1,072	1,072				43	43	8	1,471	1,470	1	1			63
Railroad work—track repairing and switch blocking	50	235	235				4	21	51	305	305	6	1			50
Rattan and willow-ware	2	18	13	5					1	7	6	1				31
Rendering	1	1	1						1	2	2					
Saddlery and harness	1	11	11						1	33	32	1				
Sheet metal working and roofing	2	14	14						2	14	14					
Slaughtering and meat packing	3	190	180	2	8		2	3	3	203	199	2	2			2
Soap	1	3	3						1	2	2					
Stone cutting	1	20	20						1	8	8					
Wagon, carriage and sleigh	5	409	405	4			3	4	5	425	418	6	1			2
Woodenware	1	24	24													
Wood turning	1	3	3						1	3	3					
Woolen goods	2	45	22	22	1				1	39	16	23				
Waterworks	7	18	18				3	7	8	23	23					13
Telegraph, telephone and messenger companies	3	52	27	25			3	4	7	77	33	39	5			6
Other inspections	3	172	138	33	1		1		2	267	221	44	2			12
Boxes—paper and envelopes									1	14	4	9	1			7
Department stores									3	128	55	71	2			
Retail mercantile establishments									5	74	39	32	3			
Total	518	9,112	7,975	1,044	69	24	280	224	547	9,535	8,257	1,150	101	27	3.3	267

TABLE IV.—Number of Establishments, and Number of Wage Earners in Specified Industries Grouped According to Daily and Weekly Working Time.

Country District Inspected by F. E. Hoffman.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Agricultural mach. and impl.	6	518	10	60	6	548	10	60
Automobile and bicycle repairing	1	2	10	60	2	6	10	60
Blacksmithing and wheelwrighting	13	71	10	60	15	79	10	60
Boat building	2	27	10	60	2	30	10	60
Boots and shoes, factory product	4	315	10	60	6	524	10	60
Bottling	9	31	10	60	10	29	10	60
Boxes—wood, packing	2	104	10	60	2	106	10	60
Bread and other bakery products	4	6	8	48	2	4	8	48
	4	12	9	54	3	10	9	54
	17	54	10	60	27	71	10	60
	1	4	11	66				
	5	16	12	72	2	4	12	72
	1	2	13	78				
Brewing	3	34	9	54	1	8	8	48
	8	34	10	60	13	116	10	60
	1	5	12	72				
	1	23	8-10	48-60				
	1	20	9-10	54-60				
Brick and tile	5	90	10	60	4	73	10	60
Canning—corn	4	306	10	60				
Carpet cleaning	2	9	10	60	2	10	10	60
Carpets and rugs	2	26	10	60	3	28	10	60
Cement, lime and plaster	1	22	10	60				
Cement stone and cement sidewalks	1	8	10	60	2	14	10	60
Cigars	31	158	8	48	31	163	8	48
	4	35	9	54	5	26	9	54
	1	7	9½	57				
	3	10	10	60		9	10	60
Clothing, factory product	1	70	10	60	1	74	9	54
Coffee roasting, extracts and spices	1	8	9½	54				
Confectionery	3	116	10	60	2	68	10	60
Cooperage	1	12	8	48	1	12	8	48
	1	12	9	54				
	1	17	10	60	3	35	10	60
Creamery products	1	2	8	51				
	1	1	9	54	1	2	9	54
	8	26	10	60	10	36	10	60
	6	13	12	72	8	17	12	72
	1	1	13	78				
	1	1	14	84				
Electric lighting	1	2	10	60	1	2	10	60
	1	3	11	66				
	8	26	12	72	11	31	12	72
	2	5	13	78				
Electric power plant, street car service	1	34	10	60	1	37	10-12	60-72
Electric light, heat & power—buildings	4	22	11	66	4	17	11	66
Electric lighting and water-works	1	10	10	60	1	10	10	60
	1	3	12	72	5	11	12	72
	3	6	15	80				
	1	2	16	96				
Fibre goods	1	106	10	60	3	102	10	60
Flouring and grist mill products	17	173	10	60	28	338	10	60
	4	19	11	66				
	4	72	12	72				

TABLE IV.—COUNTY DISTRICTS INSPECTED BY
F. E. HOFFMAN.—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Foundry and machine shop products	2	86	8-12	48-72	1	85	8-12	48-72
Fur goods	2	50	10-12	60-72	33	363	10	60
Furniture & cabinet making	31	284	10	60	45	83	10	60
Gas, illuminating	1	10	8	48	5	48	10	60
Gloves and mittens	2	36	9	54	3	162	12	72
Grain cleaning and storing ..	1	3	9½	57	1	58	10	60
Hats and caps	1	6	10	60	1	83	10	60
Hosiery and knit goods	3	150	10	60	1	20	9	54
Laundry work	2	9	12	72	1	20	9½	54
Leather tanning	2	39	10	60	1	10	8	48
Linseed oil and linseed cake ..	40	86	10	60	1	26	8	48
Lumber, planing mill products incl. sash, door, etc.	1	20	9½	56	18	190	10	60
Lumber and timber	1	13	9	54	3	13	10	60
Malt	1	20	10	60	1	21	8-12	48-72
Medicines and drugs	1	35	8	48	19	597	10	60
Monuments and tombstones ..	1	31	9	50	8	976	10	60
Musical instruments	2	30	9	54	3	38	10	60
Plumbing and gas and steam fitting	15	114	10	60	4	91	10	60
Pottery and stoneware	3	12	10	60	3	10	10	60
Printing	1	18	8-12	48-72	1	20	10	60
Pulp-wood	16	853	10	60	3	24	8-10	48-60
Railroad work—shop and roundhouse	8	1,093	10	60	4	332	10	60
Railroad work—track repairing and switch blocking ..	3	42	10	60	5	117	8	48
Rattan and willow-ware	3	82	10	60	36	198	9	54
Rendering	2	3	9	54	9	110	9½	56
Saddlery and harness	1	7	10	60	2	29	10	59
Sheet metal work and roofing	2	20	10	60	7	100	10	60
Slaughtering & meat packing	19	75	10	60	1	32	10-12	60-72
Soap	1	34	12	72	3	1,120	10	59
Stone cutting	1	675	10	59	8	351	10	60
Wagon, carriage and sleigh ..	50	235	10	60	1	305	10	60
Woodenware	2	18	10	60	1	6	10	60
Wood turning	1	1	10	60	1	2	10	60
Woolen goods	1	11	10	59	1	32	10	60
Waterworks	2	14	10	60	2	14	10	60
Telegraph, telephone and messenger companies	3	190	10	60	3	203	10	60
Other inspections	1	3	10	60	1	2	10	60
	1	20	8	48	1	8	10	60
	5	409	10	60	5	425	10	60
	1	24	10	60	1	3	10	60
	2	45	10	60	2	39	10	60
	3	6	10	60	3	6	10	60
	1	4	11	66	2	5	11	66
	3	8	12	72	3	12	12	72
	2	33	9½	56	5	59	9½	56
	1	19	10	60	3	18	10	60
	3	172	10	60	2	30	9-11	54-66
					9	453	10	60
Total	518	9,112			547	9,535		

TABLE V.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I of Country District Inspected by F. E. Hoffman.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	.....	.....	Less than 48	.....	.....
8	245	332	48	243	332
9	442	352	50	30	.....
9½	239	179	51	2	.....
10	7,714	8,334	54	419	52
11	52	22	56	221	173
12	186	87	57	10	.....
13	8	.....	59	706	1,19
14	1	.....	60	7,009	7,30
15	6	.....	66	52	2
16	2	.....	72	186	57
8 and 10	23	24	78	8	.....
9 and 10	20	30	80	6	.....
8 and 12	104	106	84	1	.....
10 and 12	70	69	96	2	.....
			48 to 60	23	.....
			54 to 60	20	30
			48 to 72	104	106
			60 to 72	70	69
Total.....	9,112	9,335	Total.....	9,112	9,335

REPORT OF FACTORY INSPECTOR P. J. KARPEN.

Mr. W. H. Williams, Commissioner of Labor.

Dear Sir: Attached please find my report on factory inspection work in the rural district assigned to me, for the years 1905 and 1906.

In both years I visited 33 towns for the purpose of inspection and in the first year I made 509 separate inspections, and 505 in 1906. The summary report shows for the given establishment 3,571 wage earners in 1905 and 3,407 in 1906. The decrease in wage earners is noticeable in each class, for in 1905 they were composed of 3,131 adult males, 357 adult females, 62 boys and 21 girls under 16 years of age. Their number in 1906 was composed of 3,004 adult males, 351 adult females, 35 boys and 17 girls under 16 years of age.

I would recommend that the inspections in the country districts be made oftener than once in the year, also that the inspection of railroad switch yards be extended to all such yards, on all railroads in the state.

Very respectfully,
(Signed) PETER J. KARPEN,
Inspector.

Laundry work	2	28	7	21	.....	2	28	5	21	.....	2	.....	11
Mating	1	10	10	.....	.....	1	11	11	.....	.....	.....	.....	.....
Plumbing and gas and steam fitting	2	19	19	.....	.....	1	8	8	.....	.....	.....	.....	.....
Printing	4	57	47	9	.....	4	56	49	7	.....	.....	.....	.....
Railroad work—shop and round- house work	1	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work—track repairing and switch blocking	5	25	25	.....	.....	4	22	21	.....	1	.....	.....	.....
Slaughtering and meat packing— wholesale	1	40	37	2	.....	1	25	25	.....	.....	.....	.....	.....
Stone quarry	4	297	294	3	.....	4	240	238	.....	2	.....	.....	.....
Wagons, carriages and sleighs ..	1	5	5	.....	.....	1	5	5	.....	.....	.....	.....	.....
Woodware	1	47	41	6	.....	1	51	49	.....	2	.....	.....	.....
Municipal work—water works...	1	3	3	.....	.....	1	3	3	.....	.....	.....	.....	.....
Total.....	57	1,192	977	154	40	21	981	779	157	28	17	20	23
Windom—Cottonwood County.													
Bread and other bakery products	1	2	2	.....	.....	1	2	2	.....	.....	.....	.....	.....
Creamery products	1	1	1	.....	.....	1	1	1	.....	.....	.....	.....	.....
Electric lighting	1	3	2	.....	.....	1	2	2	.....	.....	.....	.....	.....
Flouring and grist mill products	2	6	6	.....	.....	2	6	6	.....	.....	.....	1	2
Grain cleaning and storing	6	6	6	.....	.....	5	5	5	.....	.....	.....	.....	.....
Laundry work	1	3	2	1	.....	1	3	1	2	.....	.....	.....	.....
Lumber—planing mill products.	1	5	5	.....	.....	1	1	1	.....	.....	.....	.....	.....
Inc. sash, door and blind mfg.	2	6	5	1	.....	2	7	5	2	.....	.....	.....	.....
Printing	1	3	3	.....	.....	1	5	5	.....	.....	.....	.....	.....
Railroad work—track repairing and switch blocking	1	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	16	34	32	2	.....	15	32	28	4	.....	.....	1	2
Farmington—Dakota County.													
Bread and other bakery products	1	2	2	.....	.....	1	1	1	.....	.....	.....	.....	.....
Creamery products	1	1	1	.....	.....	1	1	1	.....	.....	.....	.....	.....
Foundry and machine shop	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Products	1	4	4	.....	.....	1	3	3	.....	.....	.....	.....	.....
Grain cleaning and storing	2	4	4	.....	.....	2	3	3	.....	.....	.....	.....	.....
Printing	1	7	4	3	.....	1	6	3	3	.....	.....	.....	.....
Railroad work—track repairing and switch blocking	2	3	3	.....	.....	2	7	7	.....	.....	.....	.....	.....
Total.....	8	21	18	3	.....	8	21	18	3	.....	.....	.....	.....

TABLE 1.—Continued.—Factory Inspection. Country District Inspected by P. J. Karpen.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults	Male	Female	Under 16 Years	Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons	Total Number	Adults	Male	Female	Under 16 Years	Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons		
Hastings—Dakota County.																				
Bread and other bakery products	2	4					1		2	6	6							1		
Brewing	1	5							1	5	5									
Carpets and rugs	1	2																		
Cigars	2	5																		
Cooperage	1	7																		
Electric lighting	1	2					1		1	8	8									
Flouring and grist mill products	2	47					13	8	1	55	49	6				2		1		
Foundry and machine shop products	1	5																		
Grain cleaning and storing	2	13					2		3	19	19									
Laundry work	1	4							1	3	1	2								
Lumber—planing mill products, inc. sash, door and blind mfg.	1	5							1	10	10									
Lumber and timber	1	59					1													
Mating	2	10					1													
Printing	2	12						2	2	8	8									
Railroad work—track repairing and switch blocking	1	6							2	15	15							3		
Wagons, carriages and sleighs	1	9							1	6	6									
Total	21	196	191	4			18	12	19	146	138	8				16	6			
Blue Earth—Faribault County.																				
Bread and other bakery products	2	3							1	2	2									
Cigars	1	2							1	2	2									
Creamery products	1	2							1	2	2									
Electric lighting and water works	1	3					1	2	1	3	3							2		

Blue Earth—Cont'd.

Flouring and grist mill products	2	13	12	1	1	1	1	2	28	27	1	1	8	4
Grain cleaning and storing	4	5	5	2	2	4	4	4	6	6	2	2	6	
Laundry work	1	4	2	1	1	1	1	1	3	1	3	3		
Printing	3	12	7	5	5			2	8	5				
Railroad work—track repairing	1	4	4					1	4	4				
and switch blocking														
Total	16	48	40	8				2	57	51	6		9	6

Wells—Faribault County.

Blacksmithing and wheelwrighting	1	3	3					1	4	4				
Bread and other bakery products	1	1	1					2	4	2	2			
Cigars	2	22	18		4			2	25	21	4			
Cooperage	1	10	10					1	3	3				
Creamery products	1	3	2	1				1	4	2	2			
Electric lighting and water works	1	3	3					1	3	3			2	2
Flouring and grist mill products	2	39	39		1	2	1	2	37	37			20	1
Foundry and machine shop products	1	6	6					2	8	8				
Grain cleaning and storing	2	3	3					4	4	4	1			
Printing	2	5	5					2	5	4				
Railroad work—track repairing	1	4	4					1	4	4				
and switch blocking														
Total	15	99	94	1	4			5	101	92	9		22	3

Winnebago—Faribault Count.

Bread and other bakery products	1	2	2					1	2	2				
Brick and tile	1	10	10					1	11	11				
Cigars	1	3	3					1	4	4				
Creamery products	1	2	2					1	2	2				
Electric lighting	1	4	4					1	3	3			2	3
Flouring and grist mill products	1	15	15					1	13	13			1	1
Foundry and machine shop products	2	6	6					2	7	7				
Grain cleaning and storing	2	4	4					2	4	4			4	
Printing	2	7	7					2	6	6				
Railroad work—track repairing	2	6	6					2	9	9				
and switch blocking														
Total	16	59	59		2	2		2	61	61			2	4

TABLE 1.—Continued.—

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections	Wage Earners				Regular Night Work Number of Persons	Regular Sunday Work Number of Persons	No. of Inspections	Wage Earners				Regular Night Work Number of Persons	Regular Sunday Work Number of Persons						
		Total Number	Adults		Under 16 Years				Total Number	Adults		Under 16 Years								
			Male	Fe- male	Male					Fe- male	Male	Fe- male			Male	Fe- male				
Jackson—Jackson County.																				
Blacksmithing and wheelwright- ing	2	3	3					1	2	2										
Bread and other bakery products	1	3	3					1	4	3										
Cigars	1	2	2	1				1	2	2										
Creamery products	1	2	2					1	2	2										
Electric lighting	1	2	2					2	6	5										
Flouring and grist mill products	2	6	6					2	6	6										
Foundry and machine shop products	1	3	3					1	3	3										
Grain cleaning and storing	6	8	8					6	6	6										
Printing	2	7	4					2	6	4										
Railroad work—track repairing and switch blocking	1	10	10					2	1	5										
Total	17	44	40	3	1	1	4	18	37	34	2	1								
Cleveland—Le Sueur County.																				
Grain cleaning and storing	3	3	3					2	2	2										
Printing	1	2	1					1	2	1										
Railroad work—track repairing and switch blocking	1	2	2					1	3	3										
Total	5	7	6	1				4	7	6	1									

Kansas—Le Sueur County.									
	2	22	22		2	2	2	29	2
Grain cleaning and storing.....									
Railroad work—track repairing and switch blocking.....	1	6	6						
Stone quarry and stone cutting.....	2	110	109	1				196	
Creamery.....								1	
Total.....	5	138	137	1				225	2
Le Sueur Center—Le Sueur County.									
Cigars.....									
Bread and other bakery products.....	1	1	1					3	
Canning—corn.....	1	40	15	25				1	
Creamery products.....	1	2							
Flouring and grist mill products.....	1	3	3					2	
Grain cleaning and storing.....	2	2	2					3	
Lumber and timber—saw mill.....	1	4	4					11	
Printing.....	2	1	6	1				3	
Railroad work—track repairing and switch blocking.....	1	4	4					4	
Total.....	10	63	37	26				33	3
Montgomery—Le Sueur County.									
Bottling—mineral water.....	1	2	2					2	
Brewing.....	1	5	5					6	
Cigars.....	1	1	1					1	
Creamery products.....	1	3	3					3	
Flouring and grist mill products.....	2	26	26					57	1
Grain cleaning and storing.....	3	3	3					4	
Printing.....	1	4	3	1				4	
Railroad work—track repairing and switch blocking.....	2	6	6					8	
Laundry work.....								1	
Lumber and timber—saw mill.....								18	
Total.....	12	50	49	1				104	1
Waterville—Le Sueur County.									
Bread and other bakery products.....	2	3	3					2	
Cigars.....	1	1	1					1	
Creamery products.....	1	1	1					1	
Flouring and grist mill products.....	1	15	15					14	
Foundry and machine shop products.....	1	3	3					3	
Furniture and cabinet making.....	1	45	42	3				66	

TABLE 1.—Continued.—

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults	Male	Fe- male	Under 16 Years	Regular Night Work	Regular Sunday Work	Number of Persons			Total Number	Adults	Male	Fe- male	Under 16 Years	Regular Night Work	Regular Sunday Work	Number of Persons		
Waterville—Cont'd.																				
Grain cleaning and storing.....	1	1	1								1	1	1							
Printing	1	5	5								1	3	2	1						
Railroad work—track repairing and switch blocking.....	3	10	10								3	9	9				2			
Total.....	12	84	81	3			3				13	101	99	2			7			1
Marshall—Lyon County.																				
Bottling—mineral and soda water	1	5	5								1	3	3							
Bread and other bakery products	2	2	2								3	3	3							
Cigars	2	6	6								2	6	6							
Creamery products.....	1	8	7	1							1	8	7	1						
Electric lighting and water works	1	3	3				1	2			1	3	3							
Flouring and grist mill products	2	42	40	2			10	1			2	31	29	2			1			
Foundry and machine shop products	1	3	3								1	3	3							
Grain cleaning and storing.....	4	12	5	7							4	5	5							
Laundry work	1	3		2							1	3	1	2						
Lumber, planing mill products	1	8	8								1	4	4							
Inc. sash, doors and blind mfr	2	8	6	2							2	8	7	1						
Printing	2	10	10								2	16	16							
Railroad work—track repairing and switch blocking.....	2	10	10								2	16	16							
Total.....	20	108	96	7			11	3			21	92	88	6			1			2

Tracy—Lyon County.

Bread and other bakery products	1	2	2	2	2	1	2	1	2	2	2	1	2	1	2	2	1	3
Electric lighting and water works	1	2	2	2	2	1	1	1	1	3	3	3	3	3	3	3	1	3
Flouring and grist mill products	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Grain cleaning and storing	4	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1
Laundry work	1	4	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1
Printing	2	7	7	6	6	1	1	1	1	1	1	1	1	1	1	1	1	1
Railroad work—shops and roundhouses	2	52	52	52	52	15	62	2	61	51	51	51	51	51	51	51	18	51
Railroad work—track repairing and switch blocking	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1
Cigars	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	13	78	74	74	74	4	16	54	81	79	79	79	79	79	79	79	19	54

Fairmont—Martin County.

Bottling	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Bread and other bakery products	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Cigars	1	14	14	14	14	1	1	1	1	1	1	1	1	1	1	1	1	1
Creamery products	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1
Electric lighting	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Flouring and grist mill products	1	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1	1
Foundry and machine shop products	1	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1
Grain cleaning and storing	5	5	5	5	5	1	1	1	1	1	1	1	1	1	1	1	1	1
Laundry work	1	8	8	8	8	1	1	1	1	1	1	1	1	1	1	1	1	1
Printing	2	17	13	13	13	4	1	1	1	1	1	1	1	1	1	1	1	1
Railroad work—track repairing and switch blocking	3	11	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1
Slaughtering and meat packing	1	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	19	84	75	75	75	9	2	3	88	79	79	79	79	79	79	79	1	3

Sherburn—Martin County.

Creamery products	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Electric lighting	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flouring and grist mill products	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Grain cleaning and storing	6	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1	1
Printing	2	5	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1
Railroad work—track repairing and switch blocking	1	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	12	19	18	18	18	1	1	1	19	17	17	17	17	17	17	17	1	1

TABLE 1.—Continued.—

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Regular Sunday Work					Regular Night Work					Regular Sunday Work					Regular Night Work				
	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years	Total Number	Adults	Male	Fe- male	Under 16 Years
Slayton—Murray County.																				
Creamery products	1	2	2								1	3	3			1	3	3		
Flouring and grist mill products	1	3	3								1	3	3			1	3	3		
Gas, illuminating	1	1	1								1	1	1			1	1	1		
Grain cleaning and storing	4	5	5								4	6	6	1		6	6	1		
Printing	2	6	5		1						2	7	7			7	7			
Railroad work—track repairing	1	3	3								1	4	4			4	4			
and switch blocking	1	1	1								1	1	1			1	1			
Municipal work—water works	1	1	1								1	1	1			1	1			
Total	11	21	20		1						11	25	24	1		25	24	1		
Nicollet—Nicollet County.																				
Creamery products	1	2	2								1	2	2			1	2			
Grain cleaning and storing	3	3	3								3	3	3			3	3			
Printing	1	2	1	1							1	2	1	1		1	1			
Railroad work—track repairing	1	3	3								1	4	4			4	4			
and switch blocking																				
Total	6	10	9	1							6	11	9	2		11	9	2		
St. Peter—Nicollet County.																				
Bottling	1	4	4								1	4	4			4	4			
Bread and other bakery products	2	10	4	6							2	9	6	3		9	6	3		
Brewing	1	14	14								1	17	17			17	17			
Cigars	4	14	13	1							4	9	9			9	9			
Clothing—factory products	2	86	16	70							2	93	19	74		93	19	74		

	1	4	4	4	2	2	1	4	4	3	3
Electric lighting and water works	1	14	14	14			1	1	4		
Flouring and grist mill products	1	14	14	14			1	1	17		
Foundry and machine shop									1		
Products	1	1	1	1			1	1	1		
Furniture and cabinet making	1	24	23	1			1	1	24		
Grain cleaning and storing	2	2	2	2			2	2	2		
Laundry work	1	6	2	4			1	9	3	6	
Printing	3	15	15				3	16	16		
Railroad work—track repairing	2	7	7				2	6	6		
and switch blocking	1	6	6				1	3	3		
Woolen goods	1						1				
Total	23	207	125	82	3	6	22	214	131	83	3
Adrian—Nobles County.											
Bread and other bakery products	1	1	1				1	1	1		
Electric lighting and water works	1	2	2			1	1	3	3		1
Flouring and grist mill products	1	2	2				1	2	2		2
Grain cleaning and storing	5	7	7				4	4	4		4
Printing	2	7	5	1			1	4	4		
Railroad work—track repairing											
and switch blocking	1	3	3				1	6	6		
Cigars							1	2	1		
Total	11	22	20	1	1	1	10	22	21	1	2
Worthington—Nobles County											
Bottling	1	3	2	1			1	2	1		
Bread and other bakery products	1	1	1				1	2	2		
Cigars	1	2	2				1	2	2		
Electric lighting and water works	1	4	4			2	1	4	4		
Flouring and grist mill products	1	4	4				1	6	6		2
Foundry and machine shop											
Products	1	3	3				1	2	2		
Grain cleaning and storing	5	5	5				5	5	5		
Laundry work	1	4	2	2			1	4	2		
Printing	3	10	8	2			3	15	7		
Railroad work—round-house	1	10	10			6	1	10	10		7
Railroad work—track repairing											10
and switch blocking	3	17	17				3	15	15		
Total	19	63	58	5	8	4	19	67	56	11	13

TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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	Adults			Under 16 Years	Total Number		Male			Fe- male	Male			Fe- male	Male			Fe- male	Male				Fe- male	Male			Fe- male	Male			Fe- male																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906											
	Wage Earners					No. of Inspections	Regular Night Work			Number of Persons	Wage Earners					No. of Inspections	Regular Night Work			Number of Persons		
	Total Number						Under 16 Years				Total Number						Under 16 Years					
	Male	Fe- male	adults	Under 16 Years	Fe- male		Male	Fe- male	Adults	Male	Fe- male	Adults	Male	Fe- male	Male		Fe- male	Adults	Male	Fe- male		
New Prague—Cont'd.																						
Printing	1	3	2	1	.....	.....	.....	.....	.....	.....	1	4	2	2	.....	.....	.....	.....	.....	.....
Railroad work—track repairing and switch blocking.....	1	4	4	.....	.....	.....	.....	.....	.....	.....	1	3	3	.....	.....	.....	.....	.....	.....	.....
Wagons, carriages and sleighs...	1	2	2	.....	.....	.....	.....	.....	.....	.....	2	5	5	.....	.....	.....	.....	.....	.....	.....
Total.....	17	162	157	2	3	13	1	.....	.....	.....	16	140	138	2	.....	15	.....	.....	.....	17
Shakopee—Scott County.																						
Bottling	1	25	23	.....	.....	.....	.....	.....	.....	.....	1	23	21	.....	.....	.....	.....	.....	.....	.....
Bread and other bakery products	1	3	2	1	.....	.....	.....	.....	.....	.....	1	3	2	.....	.....	.....	.....	.....	.....	.....
Brewing	1	4	4	.....	.....	.....	.....	.....	.....	.....	1	5	5	.....	.....	.....	.....	.....	.....	.....
Brick and tile	1	38	35	.....	.....	.....	.....	.....	.....	.....	1	40	40	.....	.....	.....	.....	.....	.....	.....
Cement, lime and plaster.....	1	10	10	.....	.....	.....	.....	.....	.....	.....	1	12	12	.....	.....	.....	.....	.....	.....	.....
Cigars	2	5	4	.....	.....	.....	.....	.....	.....	.....	2	4	4	.....	.....	.....	.....	.....	.....	.....
Cooperage	1	6	6	.....	.....	.....	.....	.....	.....	.....	1	8	8	.....	.....	.....	.....	.....	.....	.....
Electric lighting	1	2	2	.....	.....	.....	.....	.....	.....	.....	1	2	2	.....	.....	.....	.....	.....	.....	.....
Flouring and grist mill products	1	25	25	.....	.....	.....	.....	.....	.....	.....	1	30	30	.....	.....	.....	.....	.....	.....	.....
Grain cleaning and storing.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	1	2	2	.....	.....	.....	.....	.....	.....	.....
Printing	2	6	5	.....	.....	.....	.....	.....	.....	.....	2	11	9	.....	.....	.....	.....	.....	.....	.....
Railroad work—track repairing and switch blocking.....	2	9	9	.....	.....	.....	.....	.....	.....	.....	2	10	10	.....	.....	.....	.....	.....	.....	.....
Slaughtering and meat packing.	1	8	8	.....	.....	.....	.....	.....	.....	.....	1	6	6	.....	.....	.....	.....	.....	.....	.....
Stoves and ranges	1	50	50	.....	.....	.....	.....	.....	.....	.....	1	36	36	.....	.....	.....	.....	.....	.....	.....
Total.....	17	192	184	2	6	12	4	.....	.....	.....	18	192	187	2	3	13	.....	.....	.....	5

Janesville Waseca County.										
Bread and other bakery products	1	1	1	1	1	1	1	1	1	1
Cooperage	1	7	7	1	1	1	1	1	1	1
Creamery products	1	1	1	1	1	1	1	1	1	1
Flouring and grist mill products	1	21	21	6	2	1	28	23	3	6
Foundry and machine shop	1	3	3	3	3	1	2	2	1	1
Products	1	3	3	3	3	1	2	2	1	1
Grain cleaning and storing	1	5	5	3	1	1	4	3	1	1
Printing	1	4	4	4	4	1	5	5	1	1
Railroad work—track repairing and switch blocking	1	44	42	1	1	8	47	43	4	1
Total	8	129	119	10	17	25	118	106	12	33
Waseca—Waseca County.										
Bread and other bakery products	2	3	3	3	3	2	3	3	3	3
Brewing	1	3	2	2	2	1	2	2	1	2
Cigars	1	3	1	2	1	1	4	1	3	1
Creamery products	1	2	2	2	2	1	2	2	2	2
Electric lighting	1	5	5	5	4	1	5	5	1	5
Flouring and grist mill products	2	46	43	3	8	1	45	41	4	10
Foundry and machine shop	2	6	6	6	6	1	3	3	3	1
Grain cleaning and storing	1	1	1	1	1	3	3	3	3	3
Laundry work	1	4	2	2	2	1	4	2	2	4
Printing	2	9	6	3	2	2	9	6	3	3
Railroad work—shops and round-house	1	34	34	7	21	1	31	31	1	9
Railroad work—track repairing and switch blocking	3	14	14	14	14	3	7	7	7	27
Total	18	129	119	10	17	25	118	106	12	33
Madella—Watonswan County.										
Bread and other bakery products	1	1	1	1	1	1	2	2	1	1
Cigars	1	2	2	2	2	1	2	2	1	2
Creamery products	1	1	1	1	1	1	2	2	1	1
Flouring and grist mill products	1	20	17	3	1	1	20	20	4	4
Grain cleaning and storing	3	4	4	4	4	3	4	4	4	4
Printing	1	4	3	1	1	1	4	3	1	1
Railroad work—track repairing and switch blocking	2	7	7	7	7	2	10	10	10	10
Municipal work—water works and gas lighting	1	1	1	1	1	1	2	2	2	1
Total	11	40	36	4	2	2	46	44	1	1

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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	Total Number	Adults		Under 16 Years		No. of Inspections	Regular Night Work		Number of Persons		Total Number	Adults		Under 16 Years		No. of Inspections	Regular Night Work		Number of Persons		Total Number	Adults		Under 16 Years		No. of Inspections	Regular Sunday Work		Number of Persons																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Male		Fe- male	Male	Fe- male	Male		Fe- male	Male	Fe- male	Male		Fe- male	Male	Fe- male	Male		Fe- male	Male	Fe- male	Male		Fe- male	Male	Fe- male	Male		Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TABLE II.—SUMMARY OF INSPECTION BY TOWNS.
Country District Inspected by P. J. Karpen.

COUNTY	TOWN	1905										1906									
		Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
		Total Number			Adults			Under 16 Years			Number of Persons	Total Number			Adults			Number of Persons	Under 16 Years		
		Male	Female		Male	Female		Male	Female			Male	Female		Male	Female		Male	Female		
Blue Earth	Lake Crystal	29	27	9	27	154	2	2	2	21	1	34	83	1	34	83	1	23	17	2	2
Blue Earth	Mankato	1,192	977	57	32	34	2	2	2	2	42	981	779	157	28	17	20	23	1	1	1
Cottonwood	Windom	16	34	16	32	28	2	2	2	2	15	32	28	4	4	4	1	1	1	1	1
Dakota	Farmington	8	21	8	18	3	3	3	3	3	8	21	18	3	3	3	16	16	16	16	16
Dakota	Hastings	21	191	21	191	4	4	4	4	4	12	146	138	8	8	8	9	9	9	9	9
Faribault	Blue Earth	16	48	16	48	8	8	8	8	8	6	57	51	9	9	9	22	22	22	22	22
Faribault	Wells	15	99	15	99	1	1	1	1	1	2	101	92	6	6	6	1	1	1	1	1
Faribault	Winnebago	16	59	16	59	3	3	3	3	3	2	61	61	2	2	2	1	1	1	1	1
Jackson	Jackson	17	44	17	44	6	6	6	6	6	4	37	34	1	1	1	2	2	2	2	2
Le Sueur	Cleveland	5	7	5	7	1	1	1	1	1	2	7	6	1	1	1	2	2	2	2	2
Le Sueur	Kasota	5	137	5	137	1	1	1	1	1	5	225	225	3	3	3	1	1	1	1	1
Le Sueur	Le Sueur Center	10	63	10	63	26	26	26	26	26	12	33	30	3	3	3	1	1	1	1	1
Le Sueur	Montgomery	12	50	12	50	49	49	49	49	49	14	106	104	2	2	2	1	1	1	1	1
Le Sueur	Waterville	12	84	12	84	3	3	3	3	3	13	101	99	2	2	2	7	7	7	7	7
Lyon	Marshall	20	103	20	103	96	7	7	7	7	11	92	85	6	6	6	1	1	1	1	1
Lyon	Tracy	13	78	13	78	4	4	4	4	4	16	81	79	2	2	2	19	19	19	19	19
Martin	Fairmont	19	84	19	84	9	9	9	9	9	3	89	79	9	9	9	1	1	1	1	1
Martin	Spartan	12	21	12	21	1	1	1	1	1	1	19	17	2	2	2	1	1	1	1	1
Murray	Sherburne	11	20	11	20	1	1	1	1	1	1	25	24	1	1	1	1	1	1	1	1
Nicollet	Nicollet	6	10	6	10	9	9	9	9	9	6	11	9	2	2	2	1	1	1	1	1
Nicollet	St. Peter	23	207	23	207	82	82	82	82	82	6	221	131	83	3	3	3	3	3	3	3
Nobles	Adrian	11	20	11	20	1	1	1	1	1	1	22	21	1	1	1	1	1	1	1	1
Nobles	Worthington	19	63	19	63	5	5	5	5	5	4	67	56	11	11	11	9	9	9	9	9
Pine	Hinckley	6	31	6	31	1	1	1	1	1	4	21	20	1	1	1	1	1	1	1	1
Pipestone	Pipestone	24	71	24	71	6	6	6	6	6	2	71	70	6	6	6	1	1	1	1	1
Rock	Laverne	20	69	20	69	6	6	6	6	6	4	67	61	6	6	6	4	4	4	4	4
Scott	Jordan	14	59	14	59	3	3	3	3	3	2	46	46	1	1	1	1	1	1	1	1
Scott	New Prague	17	182	17	182	2	2	2	2	2	1	140	139	2	2	2	15	15	15	15	15
Scott	Shakopee	17	182	17	182	2	2	2	2	2	1	192	187	2	2	2	13	13	13	13	13
Waseca	Fansville	8	44	8	44	1	1	1	1	1	2	47	43	12	12	12	6	6	6	6	6
Watonwan	Waseca	13	123	13	123	10	10	10	10	10	18	118	106	12	12	12	20	20	20	20	20
Watonwan	Madelia	17	40	17	40	38	38	38	38	38	11	46	44	1	1	1	5	5	5	5	5
Watonwan	St. James	21	104	21	104	7	7	7	7	7	23	97	90	7	7	7	16	16	16	16	16
Total		509	3,571	3,131	357	62	21	218	204	505	3,407	3,004	351	35	17	199	234				

TABLE III.—SUMMARY OF INSPECTIONS BY INDUSTRIES.
Country District Inspected by P. J. Karpen.

INDUSTRIES	1905										1906									
	Wage Earners					Wage Earners					Wage Earners					Wage Earners				
	Adults		Under 16 Years		Total Number	Adults		Under 16 Years		Total Number	Adults		Under 16 Years		Total Number	Adults		Under 16 Years		Total Number
	Male	Female	Male	Female		Male	Female	Male	Female		Male	Female	Male	Female		Male	Female	Male	Female	
	No. of Inspections	Number of Persons	Regular Night Work	Number of Persons	Regular Sunday Work	No. of Inspections	Number of Persons	Regular Night Work	Number of Persons	Regular Sunday Work	No. of Inspections	Number of Persons	Regular Night Work	Number of Persons	Regular Sunday Work	No. of Inspections	Number of Persons	Regular Night Work	Number of Persons	Regular Sunday Work
Blacksmithing and wheel-	1	3				2	6				2	11				6	47			
wrighting.....	10	57				11	51				11	51				6	47			
Bottling.....	37	69				38	72				38	72				6	65			
Bread and other bakery products	10	90				10	98				10	98				1	1			
Brewing.....	6	110				4	78				4	78				3	75			
Brick and tile.....	1	40																		
Canning—corn.....	1	15																		
Carpets and rugs.....	1	2																		
Cement, lime and plaster.....	4	116				5	114				5	114								
Cigars.....	40	160				42	150				42	150								
Clothing—factory product.....	2	86				2	93				2	93								
Confectionery.....	2	48				2	54				2	54								
Cooperage.....	6	55				4	64				4	64								
Creamery products.....	25	57				27	64				27	64								
Electric lighting.....	12	29				12	27				12	27								
Electric lighting and waterworks	9	27				9	29				9	29								

Flouring and grist mill products	35	538	622	14	2	103	21	33	531	615	16	.....	91	36
Foundry and machine shop products	19	123	122	1	.....	12	.....	19	103	102	1	.....	1	2
Furniture and cabinet making	4	91	87	4	.....	.....	.....	5	112	112	.....	.....	.....	.....
Furs	.....	.....	.....	.....	.....	.....	.....	1	5	2	3	.....	.....	.....
Gas-illuminating	2	9	9	.....	.....	.....	8	2	10	10	.....	.....	2	3
Grain cleaning and storing	106	164	164	.....	.....	4	2	108	168	168	.....	.....	4	2
Hosiery and knit goods	1	198	75	89	14	20	9	1	175	47	84	17	13	1
Laundry work	14	86	29	56	1	.....	.....	15	86	33	53	.....	.....	.....
Lumber-planing mill product, inc sash, door, blind and woodworking	3	18	18	.....	.....	.....	.....	3	15	15	.....	.....	.....	.....
Lumber and timber-saw mill	2	63	63	.....	.....	1	.....	3	29	29	.....	.....	.....	.....
Mailing	2	20	20	.....	.....	3	12	1	11	11	.....	.....	2	11
Plumbing and gas and steam fitting	2	19	19	.....	.....	.....	.....	1	8	8	.....	.....	.....	.....
Printing	61	280	220	52	8	.....	.....	57	270	208	60	.....	.....	.....
Railroad work-shop and round-house	9	145	145	.....	.....	-	46	7	129	129	.....	.....	52	120
Railroad work-track repairing and switch blocking	62	273	273	.....	.....	.....	5	60	297	296	.....	.....	3	5
Slaughtering and meat packing-wholesale	3	54	51	2	1	.....	.....	3	34	34	.....	.....	.....	.....
Stone quarry	6	407	403	1	3	1	.....	6	435	433	.....	.....	.....	.....
Stoves and ranges	1	50	50	.....	.....	1	1	1	36	36	.....	.....	1	1
Wagons, carriages and sleighs	4	22	22	.....	.....	.....	.....	5	22	22	.....	.....	.....	.....
Woodenware	2	50	44	.....	6	.....	1	1	51	49	.....	.....	.....	.....
Wooden goods	1	6	6	.....	.....	.....	.....	1	3	3	.....	.....	.....	.....
Municipal work-water works	4	6	6	.....	.....	2	5	4	7	7	.....	.....	2	4
Total	599	3,571	3,131	357	62	21	218	204	565	3,407	351	35	17	234

**TABLE IV.—Number of Establishments and Number of Wage Earners in Specified Industries Grouped According to Daily and Weekly Working Time.
Country District Inspected by P. J. Karpen.**

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Blacksmithing and wheelwrighting	1	3	10	60	2	6	10	60
Bottling	1	3	8	48	2	7	8	48
Bread and other bakery products	9	54	10	60	9	44	10	60
Brewing	7	13	8	48	8	19	8	48
Brick and tile.....	1	3	9	54	3	6	9	54
Canning—corn	29	53	10	60	27	47	10	60
Carpets and rugs.....	2	10	8	48	2	42	8	48
Cement, lime and plaster....	8	80	10	60	8	56	10	60
Cigars	1	15	8	48	4	78	10	60
.....	5	95	10	60	.....	.....	.....	.....
.....	1	40	10	60	.....	.....	.....	.....
.....	1	2	10	60	.....	.....	.....	.....
.....	4	116	10	60	5	114	10	60
.....	28	115	8	48	30	113	8	48
.....	2	5	9	54	4	17	9	54
.....	10	40	10	60	8	29	10	60
.....	2	86	10	60	2	93	10	60
.....	2	48	10	60	2	54	10	60
.....	2	12	8	48	1	8	8	48
.....	1	20	9	54	3	16	10	60
.....	3	23	10	60	.....	.....	.....	.....
.....	6	13	8	48	.....	.....	.....	.....
.....	1	1	9	54	2	2	9	54
.....	13	35	10	60	20	52	10	60
.....	4	6	12	72	4	8	12	72
.....	1	2	13	78	1	2	13	78
.....	1	2	10	60	1	2	10	60
.....	11	27	12	72	11	25	12	72
.....	1	4	10	60	1	2	10	60
.....	7	21	12	72	8	27	12	72
.....	1	2	10-12	60-72	.....	.....	.....	.....
.....	3	160	8	48	1	55	8	48
.....	22	208	10	60	26	362	10	60
.....	3	31	11	66	.....	.....	.....	.....
.....	1	6	12	72	1	6	12	72
.....	6	117	10-12	60-72	5	108	10-12	60-72
.....	19	123	10	60	19	103	10	60
.....	4	91	10	60	5	112	10	60
.....	1	1	10	60	.....	.....	.....	.....
.....	1	8	12	72	2	10	12	72
.....	1	1	8	48	.....	.....	.....	.....
.....	104	161	10	60	107	166	10	60
.....	1	1	11	66	.....	.....	.....	.....
.....	1	1	12	72	1	2	12	72
.....	1	198	10	60	1	176	10	60
.....	1	3	9	54	.....	.....	.....	.....
.....	1	4	9½	57	.....	.....	.....	.....
.....	12	79	10	60	15	86	10	60
.....	3	18	10	60	3	15	10	60
.....	2	63	10	60	3	29	10	60

TABLE IV.—COUNTY DISTRICTS INSPECTED BY
P. J. KARPEN.—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Malting	1	10	10	60	1	11	10	60
Plumbing and gas and steam fitting	1	10	10-12	60-72	.....	.....	.....	.....
Printing	2	19	10	60	1	8	10	60
.....	5	19	8	48	6	15	8	48
.....	25	138	9	54	20	135	9	54
.....	31	123	10	60	31	120	10	60
Railroad work—shop and roundhouse	8	141	10	60	6	119	10	60
.....	1	4	12	72	1	10	10-12	60-72
Railroad work—track repairing and switch blocking....	62	273	10	60	60	297	10	60
Slaughtering and meat packing	3	54	10	60	3	34	10	60
Stone quarry	1	15	10	60	6	435	10	60
.....	1	10	8-10	48-60	.....	.....	.....	.....
.....	2	232	9-10	54-60	.....	.....	.....	.....
.....	2	150	10-12	60-72	.....	.....	.....	.....
Stoves and ranges.....	1	50	10	60	1	36	10	60
Wagons, carriages and sleighs	4	22	10	60	5	22	10	60
Woodenware	2	50	10	60	1	51	10	60
Woolen goods	1	6	10	60	1	3	10	60
Municipal work—water works	1	1	8	48	.....	.....	.....	.....
.....	1	3	10	60	1	3	10	60
.....	2	2	12	72	3	4	12	72
Furs .....	.....	.....	.....	.....	1	5	10	60
Total.....	509	3,571	.....	.....	505	3,407	.....	.....

TABLE V.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I of Country District Inspected by P. J. Karpen.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	.....	.....	Less than 48	.....	.....
8	362	259	48	362	259
9	170	160	54	170	160
9½	4	.....	57	4	.....
10	2,405	2,786	60	2,405	2,786
11	32	.....	66	32	.....
12	75	82	72	75	82
13	2	2	78	2	2
8 and 10	10	.....	48 to 60	10	.....
9 and 10	232	.....	54 to 60	232	.....
10 and 12	279	118	60 to 72	279	118
Total.....	3,571	3,407	Total.....	3,571	3,407

FFACTORY INSPECTION IN THE RURAL DISTRICT BY
LOUIS VOGLER, INSPECTOR.

LETTER OF TRANSMITTAL.

Mr. W. H. Williams, Commissioner of Labor.

Dear Sir: Herewith I submit my first report on factory inspection in the rural district, covering the period of two years, 1905 and 1906. During the year 1905 I visited 35 towns, and 36 towns during the present year, for the purpose of inspections made which were 519 in the former and 525 in the latter year. The report shows a decrease in the number of employes; however, I desire to call attention to the fact that of the corn canning establishments, which appear in the report of 1905, but one was in operation at the time of inspections made in the present year; and the difference in the number of wage earners reported from these establishments in a very great measure accounts for the apparent decrease in the number of wage earners in the district. Corn canning establishments as a rule, when in operation, have employed a great number of minor children in light work, and the facts before stated may also account for the reduction in child labor.

I wish to call your attention to the advisability of having factory inspection and visitations as to child labor in the rural districts performed at repeated intervals of the year.

I also desire to state that I have not experienced any difficulty in securing the ready co-operation of employers and employes in the performance of my work.

I am, respectfully,
LOUIS VOGLER, Inspector.

TABLE I.—Factory Inspection, Country Districts Inspected by L. Vogler.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Adults			Under 16 Years		Total Number	Regular Night Work		Regular Sunday Work	Number of Persons	Adults			Under 16 Years		Total Number	Regular Night Work		Regular Sunday Work	Number of Persons
	Male	Female		Male	Female		Male	Female			Male	Female		Male	Female		Male	Female		
Graceville—Big Stone County																				
Bread and other bakery products																				
Cigars	4	2		2																
Creamery products	8	7		1																
Electric lighting and water works	2	1		1																
Flouring and grist mill products	2	2																		
Foundry and machine shop products	20																			
Grain cleaning and storing	6	6																		
Printing	2	2																		
Railroad work—track repairing and switch blocking	5	5																		
Total	54	50		4																
Ortonville—Big Stone County																				
Bread and other bakery products																				
Bottling	1																			
Brewing	4	4																		
Creamery products	6	6																		
Electric lighting and water works	1	1																		
Flouring and grist mill products	2	2																		
Foundry and machine shop products	4	4																		
Grain cleaning and storing	5	5																		
Laundry work	6	6																		
Printing	7	7																		
Total	71	66		1																

[illegible]

TABLE 1.—Continued.—Factory Inspection, Country Districts Inspected by L. Vogler.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections	Number of Persons			Regular Sunday Work	Regular Night Work	Wage Earners					Regular Sunday Work	Regular Night Work	Number of Persons	Number of Persons
	Total Number	Adults	Male	Fe- male	Under 16 Years		Total Number	Adults	Male	Fe- male		Total Number	Adults	Male	Fe- male	Under 16 Years				
Redwood Falls—Cont'd.																				
Laundry work.....	1	3	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Monuments and tombstones.....	1	1	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Printing.....	2	8	7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work, track repairing and switch blocking.....	1	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	16	53	49	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sleepy Eye—Brown County.																				
Bottling.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bread and other bakery products	1	3	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Brewing.....	1	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cigars.....	2	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cooperage.....	1	15	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Creamery products.....	1	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Electric lighting and water work.....	1	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flouring and grist mill products	1	124	116	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foundry and machine shop	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Products.....	4	4	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grain cleaning and storing.....	5	12	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Laundry work.....	1	4	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Printing.....	2	9	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work—shop and round house.....	1	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work—track repairing and switch blocking.....	1	5	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	19	191	175	13	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE 1.—Continued.—Factory Inspection, Country Districts Inspected by L. Vogler.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections	Regular Night Work Number of Persons	Regular Sunday Work Number of Persons	No. of Inspections	Wage Earners					Regular Night Work Number of Persons	Regular Sunday Work Number of Persons				
	Total Number	Adults		Under 16 Years						Total Number	Adults		Under 16 Years							
		Male	Fe- male	Male	Fe- male						Male	Fe- male	Male	Fe- male						
Montevideo—Chippewa County.																				
Bread and other bakery products	1	4	4						1	6	5	1								
Brick and tile	1	12	12						1	24	24									
Cigars	1	4	4						1	2	2									
Creamery products	1	1	1						1	1	1									
Electric lighting	1	5	5						1	5	5									
Flouring and grist mill products	2	22	21	1					1	27	26	2								
Foundry and machine shop																				
products																				
Grain cleaning and storing	1	5	5						1	4	4									
Laundry work	5	8	8						4	7	7									
Lumber, planing mill products.	1	5	2						1	6	2	4								
incl. sash, door and blind																				
mfr.																				
Monuments and tombstones	1	5	5						2	14	14									
Printing	1	9	9						3	7	7									
Railroad work, shop and round	3	10	8						3	10	8	2								
house																				
Railroad work, track repairing	1	32	32						1	33	33									
and switch blocking																				
Waterworks	1	4	4						1	8	8									
Total	21	126	120	6					21	156	147	9								
Maple Plain—Hennepin County.																				
Creamery products	1	2	2						1	2	2									
Grain cleaning and storing	1	1	1						1	1	1									
Railroad work—track repairing																				
and switch blocking	1	8	8						1	8	8									
Boxes—wood—packing									1	4	4									
Total	3	11	11						4	15	15									

Willmar-Kandiyohi County.					
Bottling	1	6			
Bread and other bakery products	1	14			
Brick and tile.....	1	25			
Cement stone and cement sidewalks	1	7			
Cigars	3	24			
Creamery products.....	1	10			
Electric lighting and water works	1	4			
Flouring and grist mill products	2	20			
Foundry and machine shop	2	8			
Products	4	8			
Grain cleaning and storing	1	6			
Laundry work	2	4			
Lumber, planing mill products, Incl. sash, door and blind mfg.	2	15			
Monuments and tombstones	1	6			
Printing	3	18			
Railroad work, shop and round house	2	57			
Railroad work, track repairing and switch blocking.....	1	14			
Retail mercantile stores.....	2	15			
Leather tanning					
Total.....	29	256	19	237	
Dawson—Lac qui Parle County.					
Blacksmithing and wheel- wrighting	1	4			
Bread and other bakery product	1	2			
Creamery products	1	1			
Electric lighting	1	3			
Flouring and grist mill products	3	9			
Grain cleaning and storing	4	6			
Foundry and machine shop					
Products	1	4			
Printing	1	3			
Railroad work—track repairing and switch blocking.....	2	4			
Total.....	15	36	1	36	

TABLE 1.—Continued.—Factory Inspection, Country Districts Inspected by L. Vogler.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Adults			Under 16 Years		Total Number	Regular Night Work		Regular Sunday Work	Number of Persons	Adults			Under 16 Years		Total Number	Regular Night Work		Regular Sunday Work	Number of Persons
	Male	Fe- male		Male	Fe- male						Male	Fe- male		Male	Fe- male					
Madison—Lac qui Parle County.																				
Bottling	1					1										1				
Bread and other bakery products	1	3				4										2				
Creamery products	1	2				3														
Electric lighting	1	1				2														
Flouring and grist mill products	1	2				3														
Grain cleaning and storing	2	9				11										1				
Printing	7	10				17										2				
Railroad work—track repairing	2	6				8										2				
and switch blocking	1	2				3										1				
Total	16	37				53										14				
Le Sueur—Le Sueur County.																				
Blacksmithing and wheel-																				
wrighting																				
Bread and other bakery products	1	6				7										2				
Canning—corn	1	77				78										1				
Cigars	1	8				9										1				
Creamery products																				
Electric lighting and water	1	2				3														
works	1	2				3														
Flouring and grist mill products	3	9				12										2				
Grain cleaning and storing	2	5				7										2				
Monuments																				
Printing	2	10				12										2				
Railroad work, track repairing																				
and switch blocking	1	6				7										1				
Railroad work, shop and round																				
house work																				
Total	13	125				138										14				

Glencoe—McLeod County.											
Bottling.....	1	4	4	1	1	1	1	3	3	1	1
Bread and other bakery products	1	3	2	1	1	1	1	2	2	1	1
Brewing.....	1	15	16	1	1	1	1	16	16	1	1
Cigars.....	3	8	8	1	1	1	1	2	2	1	1
Creamery products.....	1	3	3	1	1	1	1	2	2	1	1
Electric lighting and water works	1	4	4	2	1	1	1	4	4	1	1
Flouring and grist mill products	2	7	6	1	1	1	1	2	8	1	1
Foundry and machine shop products	1	18	18	1	1	1	1	22	22	1	1
Grain cleaning and storing.....	4	5	5	1	1	1	1	4	6	1	1
Gloves and mittens.....	1	10	1	9	1	1	1	3	2	1	1
Laundry work.....	1	4	1	3	1	1	1	2	1	1	1
Printing.....	3	11	10	1	1	1	1	3	9	6	3
Monuments and tombstones.....	1	5	5	1	1	1	1	1	1	1	1
Railroad work, track repairing and switch blocking.....	1	4	4	1	1	1	1	1	5	5	1
Total.....	22	101	86	14	1	2	1	21	88	83	1
Hutchinson—McLeod County.											
Bread and other bakery products	2	8	5	3	1	1	1	1	3	2	1
Brewing.....	1	5	5	1	1	1	1	6	6	1	1
Cigars.....	1	3	3	1	1	1	1	2	2	1	1
Creamery products.....	2	21	19	2	1	1	1	24	23	1	1
Electric lighting and water works	1	3	3	1	1	1	1	4	4	1	1
Flouring and grist mill products	1	7	7	1	1	1	1	6	6	1	1
Foundry and machine shop products	1	3	3	1	1	1	1	4	4	1	1
Gloves and mittens.....	1	24	3	16	1	1	1	4	4	1	1
Grain cleaning and storing.....	9	10	10	1	1	1	1	11	11	1	1
Laundry work.....	1	3	1	2	1	1	1	4	2	1	1
Monuments and tombstones.....	1	4	4	1	1	1	1	1	1	1	1
Printing.....	2	11	8	3	1	1	1	9	6	3	1
Railroad work, track repairing and switch blocking.....	2	6	6	1	1	1	1	2	4	4	1
Water works.....	2	6	6	1	1	1	1	2	2	1	1
Total.....	25	108	82	26	1	2	1	22	82	75	2
Plato—McLeod County.											
Creamery products.....	1	2	2	1	1	1	1	4	4	1	1
Flouring and grist mill products	1	4	4	1	1	1	1	2	2	1	1
Grain cleaning and storing.....	2	3	3	1	1	1	1	1	1	1	1
Railroad work, track repairing and switch blocking.....	1	3	3	1	1	1	1	4	4	1	1
Total.....	5	12	12	5	1	1	1	3	10	10	1

TABLE 1.—Continued.—Factory Inspection, Country Districts Inspected by L. Vogler.

TOWN AND COUNTY INDUSTRIES	1905						1906					
	Wage Earners			Number of Persons			Wage Earners			Number of Persons		
	Total Number	Adults	Under 16 Years	Regular Night Work	Regular Sunday Work	No. of Inspections	Total Number	Adults	Under 16 Years	Regular Night Work	Regular Sunday Work	No. of Inspections
Litchfield—Meeker County.												
Bottling	1	3	2	1	2	1	2	2	1	2	2	1
Bread and other bakery products	1	6	6	1	2	1	3	3	1	2	2	1
Brewing	1	6	6	1	2	1	5	5	1	2	2	1
Cement blocks and bricks	2	8	7	1	1	2	10	8	2	4	4	2
Cigars	1	3	3	1	1	1	4	4	1	1	1	1
Cleamery products	1	3	3	1	1	1	4	4	1	1	1	1
Electric lighting and water	1	3	3	1	2	1	3	3	1	1	1	1
Flouring and grist mill products	2	5	5	2	2	4	12	12	1	1	1	2
Foundry and machine shop	1	10	10	1	1	1	4	4	1	1	1	1
Grain cleaning and storing	4	6	6	1	1	1	7	7	1	1	1	1
Gloves and mittens	1	14	7	1	1	6	20	12	8	1	1	1
Laundry work	1	5	2	1	1	1	6	3	3	1	1	1
Lumber, planing mill products	1	3	3	1	1	1	5	5	1	1	1	1
Incl. sash, door and blind mfg.	3	12	10	2	1	3	13	12	1	1	1	1
Printing	1	8	8	1	1	1	8	8	1	1	1	1
Railroad work, track repairing	1	13	8	3	2	1	13	12	1	1	1	1
and switch blocking	1	13	8	3	2	1	13	12	1	1	1	1
Woolen goods	1	13	8	3	2	1	13	12	1	1	1	1
Total.....	21	99	80	17	2	27	119	103	16	3	3	2

TABLE 1.—Continued.—Factory Inspection, Country Districts—Inspected by L. Vogler.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections	Wage Earners					No. of Inspections	Wage Earners					Regular Sunday Work	Regular Night Work	Number of Persons
	Total Number	Adults	Under 16 Years	Male	Fe- male		Total Number	Adults	Under 16 Years	Male	Fe- male		Total Number	Adults	Under 16 Years	Male	Fe- male			
Belle Plaine—Scott County.																				
Bread and other bakery products	2	8	4	4																
Brewing	1	8	8	20																
Brick and tile	1	26	30	30	5															
Canning—corn	1	77	30	30	8															
Cigars	1	3	3	3	9															
Creamery products	1	1	1	1																
Flouring and grist mill products	1	12	12	12																
Grain cleaning and storing	2	4	4	4																
Printing	1	3	3	3																
Railroad work, track repairing and switch blocking	1	4	4	4																
Total	12	146	89	34	13															
Henderson—Sibley County.																				
Bottling	1	3	3	3																
Bread and other bakery products	1	3	2	1																
Brewing	1	4	4	4																
Cigars	1	4	4	4																
Creamery products	1	1	1	1																
Electric lighting	1	2	2	2																
Grain cleaning and storing	1	1	1	1																
Lumber, planing mill products, incl. sash, door and blind mfg.	1	1	1	1																
Printing	1	7	7	7																
Railroad work, track repairing and switch blocking	1	3	3	3																
Flour and grist milling products	1	5	5	5																
Total	10	33	32	1																

Paynesville-Stearns County.

Cigars	2	42	35	7					1	2	42	2	1	1	1
Creamery products	1	1	1						1	1	1	1	1	1	1
Electric lighting	1	4	4						1	1	1	1	1	1	1
Flouring and grist mill products	1	1	1												
Foundry and machine shop	1	5	5							1	5	5	5	5	5
Podcasts	1	2	2							1	2	2	2	2	2
Printing	1	3	3							1	3	3	3	3	3
Railroad work, track repairing	1	5	5							1	5	5	5	5	5
and switch blocking	1	5	5							1	5	5	5	5	5
Total	8	62	55	7					1	10	74	66	8	1	1

Morris-Stevens County.

Blacksmithing and wheel-wrighting	1	2	2							1	5	5			
Bottling	1	4	3	1						1	5	3	2		
Bread and other bakery products	1	1	1							1	1	1	1		
Cement stone and cement sidewalks	1	6	6							1	6	6	2		
Cigars	1	1	1	4						1	4	2	2		
Creamery products	1	1	1							1	1	1	1		
Electric lighting	1	3	3							1	3	3	3		
Flouring and grist mill products	2	24	24						1	1	22	22		1	2
Grain cleaning and storing	3	4	4							3	3	3	5	3	2
Laundry work	1	7	2	5						1	10	6	5		
Lumber, planing mill product	1	4	4							1	5	5			
Inc. sash, door and blind mfg.	3	11	9	2						2	6	4	2		
Printing	3	11	9							3	24	24			
Railroad work, track repairing	3	18	18						1	1	2	2		1	1
and switch blocking	1	2	2							1	2	2			
Water works—municipal	1	16	12	4											
Department store	1	16	12												
Total	21	109	93	16					2	20	99	88	11	5	5

Appleton-Swift County.

Blacksmithing and wheel-wrighting	1	4	4												
Bottling	1	2	2												
Bread and other bakery products	1	5	2	3						1	3	2	1		1
Brewing	1	5	2							1	7	2			1
Creamery products	1	2	2							1	2	2			
Electric lighting and water works	1	2	2							1	2	2		1	1
Flouring and grist mill products	2	26	25	1					2	1	24	24		8	
Grain cleaning and storing	3	4	4						5	4	4	4		4	

TABLE 1.—Continued.—Factory Inspection, Country Districts Inspected by L. Vogler.

TOWN AND COUNTY INDUSTRIES	1935										1936									
	Wage Earners					Wage Earners					Wage Earners					Wage Earners				
	Adults				Under 16 Years	Adults				Under 16 Years	Adults				Under 16 Years	Adults				Under 16 Years
	Total Number	Male	Fe- male	No. of Inspections		Total Number	Male	Fe- male	No. of Inspections		Total Number	Male	Fe- male	No. of Inspections		Total Number	Male	Fe- male	No. of Inspections	
Appleton—Cont'd.																				
Printing	2	7	6	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work, track repairing and switch blocking.....	4	8	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foundry and machine shop products .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	17	65	60	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Benson—Swift County.																				
Brick .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bread and other bakery products .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cigars .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Creamery products .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Electric lighting and water works .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flouring and grist mill products .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foundry and machine shop products .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grain cleaning and storing .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Laundry work .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Printing .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work, track repairing and switch blocking .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woolen mill.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	14	50	43	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

Wheaton—Traverse County.

Blacksmithing and wheel- wrighting	1	2	2	1	1	1	1	6	2	1	1	2	1	2
Bread and other bakery products	1	4	4	1	1	1	1	2	2	1	1	1	1	2
Cigars	1	1	1	1	1	1	1	2	2	1	1	1	1	2
Creamery products	1	1	1	1	1	1	1	2	2	1	1	1	1	2
Electric lighting and water works	1	2	2	2	2	2	2	10	10	1	1	1	1	2
Fibre goods	1	6	6	6	6	6	6	6	6	1	1	1	1	2
Flouring and grist mill products	7	11	11	11	11	11	11	6	6	1	1	1	1	2
Grain cleaning and storing	1	1	1	1	1	1	1	4	4	1	1	1	1	2
Laundry work	2	6	6	6	6	6	6	1	1	1	1	1	1	2
Printing	1	4	4	4	4	4	4	5	5	1	1	1	1	2
Railroad work—track repairing and switch blocking	1	4	4	4	4	4	4	5	5	1	1	1	1	2
Foundry and machine shop products	1	4	4	4	4	4	4	5	5	1	1	1	1	2
Total	16	40	37	3	3	3	3	62	57	5	5	5	5	2

Breckenridge—Wilkins County.

Bread and other bakery products	1	4	4	4	4	4	4	5	4	1	1	1	1	2
Electric lighting and water works	1	3	3	3	3	3	3	2	2	1	1	1	1	2
Flouring and grist mill products	1	3	3	3	3	3	3	2	2	1	1	1	1	2
Grain cleaning and storing	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Laundry	2	7	7	7	7	7	7	3	3	2	2	2	2	2
Printing	2	7	7	7	7	7	7	3	3	2	2	2	2	2
Railroad work—shop and round house	1	65	65	65	65	65	65	58	58	1	1	1	1	20
Railroad work—track repairing and switch blocking	2	9	9	9	9	9	9	20	20	1	1	1	1	20
Retail mercantile establishment	1	11	8	3	3	3	3	20	20	1	1	1	1	20
Total	10	103	100	3	3	3	3	102	93	6	6	6	6	23

Buffalo—Wright County.

Bread and other bakery products	1	5	5	5	5	5	5	4	1	1	1	1	1	23
Cement stone and cement sidewalks	1	2	2	2	2	2	2	2	2	1	1	1	1	23
Creamery products	1	2	2	2	2	2	2	2	2	1	1	1	1	23
Flouring and grist mill products	3	4	4	4	4	4	4	4	4	1	1	1	1	23
Grain cleaning and storing	1	3	3	3	3	3	3	2	2	1	1	1	1	23
Laundry work	1	8	8	8	8	8	8	4	4	1	1	1	1	23
Printing	1	3	3	3	3	3	3	3	3	1	1	1	1	23
Railroad work, track repairing and switch blocking	1	6	6	6	6	6	6	5	5	1	1	1	1	23

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults		Under 16 Years		Regular Night Work	Regular Sunday Work		Number of Persons	No. of Inspections	Total Number	Adults		Under 16 Years		Regular Night Work	Regular Sunday Work		Number of Persons	No. of Inspections
		Male	Fe- male	Male	Fe- male							Male	Fe- male	Male	Fe- male					
Buffalo—Cont'd.																				
Foundry and machine shop products	9	31	24	7						1	2	2								
Total										9	24	20	4							
Cokato—Wright County.																				
Bottling										1	2	2								
Blacksmithing and wheel-wrighting	1	2	2							1	3	3								
Bread and other bakery products	1	3	90	1						1	125	50	75							
Canning—corn	1	4	4							1	5	5								
Cigars	1	4	4							1	2	2								
Creamery products	1	5	5							1	4	4								
Flouring and grist mill products	1	2	2							1	4	4								
Grain cleaning and storing	2	3	3							1	3	2	1							
Printing	1	3	3							1	3	2								
Railroad work, track repairing and switch blocking	1	8	8							1	8	8								
Total	10	119	118	1						12	156	79	77							
Delano—Wright County.																				
Blacksmithing and wheel-wrighting	2	6	6																	
Bread and other bakery products	1	3	2	1						1	3	1	2							
Cigars	2	7	6	1						2	6	6								
Creamery products	1	3	3							1	2	2								
Electric lighting and water	1	3	2							1	2	2								
Flouring and grist mill products	1	3	3							1	4	4								

[illegible]

TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Total Number	Adults	Under 16 Years			Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons		Total Number	Adults	Under 16 Years			Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons	
		Male	Female	Male	Female							Male	Female	Male	Female					
Granite Falls—Cont'd.																				
Laundry work.....	2	4								1	2	1								
Printing										2	5	4								
Railroad work—track repairing and switch blocking.....	2	10		10						2	9	9								
Total	16	64		62				1	1	18	47	45		2			1			1
Cologne—Carver County.																				
Creamery																				
Flour and grist milling products										1	3	3								
Railroad work—switch blocking and track repairing.....										1	6	6								
Total										1	5	5								
										3	14	14								

TABLE II.—SUMMARY OF INSPECTIONS BY TOWNS.
Country District Inspected By L. Vogler.

COUNTY	TOWN	1905										1906									
		No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
		Total Number	Adults	Under 16 Years	Male	Female	Total Number	Adults	Under 16 Years	Male	Female	Total Number	Adults	Under 16 Years	Male	Female	Total Number	Adults	Under 16 Years	Male	Female
Big Stone	Graceville	13	54	50	4	.....	6	1	.....	59	55	123	55	4	.....	.....	6	.....	.....	.....	.....
Big Stone	Ortonville	15	122	122	.....	.....	2	.....	.....	122	118	302	118	5	.....	.....	6	.....	.....	.....	.....
Brown	New Ulm	40	435	406	26	4	49	9	.....	392	360	2	360	2	.....	.....	40	.....	.....	.....	.....
Brown	Redwood Falls	16	53	49	4	.....	1	.....	.....	34	29	5	29	5	.....	.....	1	.....	.....	.....	.....
Brown	Steeney Eye	19	191	175	13	.....	32	15	.....	198	183	15	183	13	.....	.....	56	.....	.....	.....	.....
Carver	Chaska	19	624	426	42	.....	11	11	.....	354	331	20	331	4	.....	.....	10	.....	.....	.....	.....
Carver	Norwood	9	34	33	.....	.....	.....	.....	.....	20	18	2	18	2	.....	.....	.....	.....	.....	.....	.....
Carver	Young America	6	17	17	.....	.....	.....	.....	.....	13	13	.....	13	.....	.....	.....	.....	.....	.....	.....	.....
Chippewa	Montevideo	21	126	120	6	.....	26	26	.....	156	147	9	147	9	.....	.....	22	.....	.....	.....	.....
Hennepin	Maple Plain	3	11	11	.....	.....	.....	.....	.....	15	15	.....	15	.....	.....	.....	.....	.....	.....	.....	.....
Kandiyohi	Willmar	29	256	237	19	.....	23	39	.....	246	218	28	218	25	.....	.....	20	.....	.....	.....	.....
Lac qui Parle	Dawson	15	36	35	.....	.....	1	1	.....	32	30	2	30	1	.....	.....	1	.....	.....	.....	.....
Lac qui Parle	Madison	16	37	35	2	.....	2	2	.....	38	37	1	37	1	.....	.....	1	.....	.....	.....	.....
Le Sueur	Le Sueur	13	125	84	28	.....	5	1	.....	64	53	11	53	5	.....	.....	1	.....	.....	.....	.....
McLeod	Glencoe	22	101	86	14	.....	2	2	.....	88	83	5	83	5	.....	.....	2	.....	.....	.....	.....
McLeod	Hutchinson	25	108	82	26	.....	1	2	.....	82	76	6	76	7	.....	.....	2	.....	.....	.....	.....
McLeod	Piata	5	12	12	.....	.....	.....	.....	.....	10	10	.....	10	.....	.....	.....	.....	.....	.....	.....	.....
Meeker	Litchfield	21	99	80	17	.....	2	4	.....	119	103	16	103	16	.....	.....	9	.....	.....	.....	.....
Pope	Glenwood	11	76	69	7	.....	11	4	.....	111	103	8	103	7	.....	.....	14	.....	.....	.....	.....
Renville	Olivia	16	117	101	15	.....	.....	1	.....	43	39	4	39	4	.....	.....	1	.....	.....	.....	.....
Renville	Renville	13	26	25	.....	.....	.....	.....	.....	26	25	.....	25	.....	.....	.....	.....	.....	.....	.....	.....
Scott	Belle Plaine	12	145	89	34	.....	3	2	.....	55	54	1	54	1	.....	.....	.....	.....	.....	.....	.....
Sibley	Henderson	10	33	32	1	.....	.....	.....	.....	29	28	1	28	1	.....	.....	.....	.....	.....	.....	.....
Stearns	Parnesville	8	62	55	7	.....	2	1	.....	74	68	6	68	6	.....	.....	.....	.....	.....	.....	.....
Stevens	Morris	21	109	83	16	.....	1	2	.....	99	88	11	88	11	.....	.....	.....	.....	.....	.....	.....

TABLE II.—Continued.

COUNTY	TOWN	1905										1906													
		No. of Inspections		Wage Earners				Regular Sunday Work		Regular Night Work		Number of Persons		No. of Inspections		Wage Earners				Regular Sunday Work		Regular Night Work		Number of Persons	
				Total Number		Adults										Under 16 Years		Male							
Swift	Appleton	17	65	60	5	7	3	14	59	57	2	2	1	1	2	9	2	2	2	2	2	2	2	2	2
Swift	Benson	14	50	43	7	1	3	19	73	66	6	6	1	1	6	1	1	1	1	1	1	1	1	1	1
Traverse	Wheaton	16	40	37	3	2	1	20	62	57	5	5	3	3	5	3	3	3	3	3	3	3	3	3	3
Wilkin	Breckenridge	10	103	100	3	14	22	10	102	93	6	6	4	4	6	4	4	4	4	4	4	4	4	4	4
Wright	Buffalo	9	31	24	7	2	1	9	24	20	7	7	4	4	7	4	4	4	4	4	4	4	4	4	4
Wright	Cokato	10	119	118	1	2	4	12	156	79	14	14	14	14	77	14	14	14	14	14	14	14	14	14	14
Wright	Delano	13	66	62	4	1	1	8	73	59	2	2	8	8	23	1	1	1	1	1	1	1	1	1	1
Wright	Howard Lake	8	16	16	2	1	1	9	24	23	1	1	9	28	27	1	1	1	1	1	1	1	1	1	1
Wright	Waverly	9	28	28	2	1	1	18	47	46	2	2	18	47	46	2	2	2	2	2	2	2	2	2	2
Yellow Medicine	Granite Falls	15	54	52	2	1	1	3	14	14	1	1	3	14	14	1	1	1	1	1	1	1	1	1	1
Carver	Cologne	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total		519	3,498	3,064	320	75	29	525	3,162	2,821	280	61	276	206	206	206	206	206	206	206	206	206	206	206	206

TABLE III.—SUMMARY OF INSPECTION BY INDUSTRIES.
Country Districts Inspected by L. Vogler.

INDUSTRIES	1905										1906									
	No. of Inspections					Number of Persons					No. of Inspections					Wage Earners				
	Total Number					Regular Night Work					Regular Sunday Work					Total Number				
																Adults		Under 16 Years		
	Male	Female	Male	Female	Fe- male	Male	Female	Male	Fe- male	Male	Female	Male	Female	Fe- male	Male	Male	Female	Male	Female	Number of Persons
Blacksmithing & wheelwrighting	20	20	2													20	20			6
Bottling	44	42														40	39			12
Bread and other bakery products	121	80	41													88	62			29
Brewing	13	97														110	110			12
Brick and tile	391	362														425	373			9
Canning—corn	460	303	97													125	50			1
Cement stone and cement sidewalks	29	29														15	15			3
Cigars	180	161	18													183	156			34
Cooperage	151	47														49	47			3
Crochery products	141	130	11													160	144			2
Electric lighting & water works	16	16														16	16			37
Electric lighting and grist mill products	49	49														54	54			6
Flouring and machine shop	522	506	15													542	522			19
Foundry and machine shop products	92	92														102	102			52
Gloves and mittens	46	16	32													28	19			21
Grain cleaning and storing	172	171	1													160	159			3
Laundry work	76	26	50													88	26			119
Lumber, planing mill products, incl. sash, door and blind mfg.	89	89														56	56			19
																				10

TABLE III.—Continued.

INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Adults			Under 16 Years		Regular Night Work			Regular Sunday Work		Adults			Under 16 Years		Regular Night Work			Regular Sunday Work	
	Total Number	Male	Female	Male	Female	Total Number	Male	Female	Total Number	Male	Total Number	Male	Female	Total Number	Male	Total Number	Male	Female	Total Number	Male
Monuments and tombstones.....	7	35	34	1					2	12	12									
Musical instruments.....	1	3	3						1	2	2									
Pickling and preserving.....	1	17	4	8																
Plumbing and gas and steam fitting.....	2	9	9						61	256	205	47								
Printing.....	63	261	231	29	1															
Railroad work, shop and round- house.....	6	185	185			57	62	8		206	206									
Railroad work, track repairing and switch blocking.....	51	237	237			4	19	47		297	297									
Stone cutting.....	1	22	22																	
Stone quarries.....	1	60	60						1	75	75									
Tools.....	1	3	3																	
Woolen goods.....	1	13	8	3	2				3	23	20	8								
Water works, municipal.....	2	3	3			1	1	4		8	8									
Department stores.....	2	22	15	7																
Retail mercantile establishments	2	20	14	6		7														
Fibre goods.....									1	10	10									
Leather tanning.....									1	2	2									
Boxes, wood.....									1	4	4									
Total.....	519	3,488	3,064	320	75	208	167	525	3,182	2,821	2,821	280	61	276	296					

TABLE IV.—Number of Establishments and Number of Wage Earners in Specified Industries Grouped According to Daily and Weekly Working Time.
Country District Inspected by L. Vogler.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Blacksmithing and wheelwrighting	6	20	10	60	6	20	10	60
Bottling	10	44	10	60	12	40	10	60
Bread and other bakery products	1	4	8	48	.....	.....	.....	.....
.....	28	111	10	60	28	84	10	60
Brewing	1	6	12	72	1	4	12	72
Brick and tile	13	97	10	60	12	110	10	60
Canning—corn	8	391	10	60	9	425	10	60
Cement stone and cement sidewalks	5	460	10	60	1	125	10	60
Cigars	5	29	10	60	3	15	10	60
.....	14	55	8	48	19	136	8	48
Cooperage	7	46	9	54	9	37	9	54
Creamery products	9	79	10	60	5	11	10	60
.....	3	51	10	60	3	49	10	60
.....	6	12	8	48	.....	.....	.....	.....
.....	30	127	10	60	37	160	10	60
Electric lighting	1	2	12	72	.....	.....	.....	.....
.....	4	11	10	60	1	2	10	60
.....	2	5	12	72	5	14	12	72
Electric lighting and water works	2	6	8	48	1	2	8	48
.....	7	17	10	60	2	5	10	60
.....	10	26	12	72	16	47	12	72
Flouring and grist mill products	45	495	10	60	52	542	10	60
.....	5	27	11	66	.....	.....	.....	.....
Foundry and machine shop products	16	92	10	60	21	102	10	60
Gloves and mittens	1	14	10	59	.....	.....	.....	.....
.....	2	34	10	60	3	28	10	60
Grain cleaning and storing..	111	172	10	60	119	160	10	60
Laundry work	14	76	10	60	19	89	10	60
Lumber—planing mill products, inc. sash, door and blind	12	89	10	60	10	56	10	60
Monuments and tombstones..	7	35	10	60	2	12	10	60
Musical instruments.....	1	3	10	60	.....	.....	.....	.....
Pickling and preserving.....	1	17	10	60	1	2	10	60
Plumbing and gas and steam fitting	2	9	10	60	.....	.....	.....	.....
Printing	37	157	9	54	12	52	8	48
.....	1	4	9½	57	41	181	9	54
.....	25	100	10	60	8	23	10	60
Railroad work—shop and roundhouse	5	120	10	60	6	153	10	60
.....	1	65	10-11	60-66	2	53	10-11	60-66
Railroad work—track repairing and switch block.....	51	237	10	60	47	297	10	60
Stone cutting.....	1	22	8	48	.....	.....	.....	.....
Stone quarry.....	1	60	10	60	1	75	10	60
Tools	1	3	10	60	.....	.....	.....	.....
Woolen goods.....	1	13	10	60	3	28	10	60
Water works—municipal	2	3	10	60	4	8	12	72
Department stores.....	1	6	9½	57	.....	.....	.....	.....
.....	1	16	12	72	.....	.....	.....	.....
Retail mercantile establishments	1	9	11	66	.....	.....	.....	.....
.....	1	11	10-12	60-72	.....	.....	.....	.....
Other inspections.....	.....	.....	.....	.....	3	16	10	60
Total.....	519	3,488	.....	.....	525	3,162	.....	.....

TABLE V.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I of Country District Inspected by L. Vogler.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	.....	.....	Less than 48	.....	.....
8	99	189	48	99	189
9	203	218	54	203	218
9½	10	.....	57	10	.....
10	3,009	2,629	59	14	.....
11	36	.....	60	3,022	2,629
12	55	73	66	9	.....
10 and 11	65	53	72	55	73
10 and 12	11	.....	60 to 66	65	53
.....	.....	.....	60 to 72	11	.....
Total.....	3,488	3,162	Total.....	3,488	3,162

**FACTORY INSPECTION IN THE RURAL DISTRICT BY
FRANK W. MURRAY, INSPECTOR.**

LETTER OF TRANSMITTAL.

Mr. W. H. Williams, Commissioner of Labor.

Dear Sir: Submitting herewith my report on inspection work in the rural district assigned to me during 1905 and 1906, I desire to call your attention to the importance of having the blocking of switches, guard rails and frogs on railroads oftener inspected than heretofore has been the case.

During the year 1905 I visited twenty towns in the district and made 343 inspections, of which number 40 were inspections of railroad switch yards. During the present year I made 364 inspections, in twenty-seven towns, and they embraced 52 railroad switch yards. The number of inspections and the total number of wage earners reported were larger in the latter year than in the former, but the number of children found employed in the latter year comprised only fifty per cent of that of the former year.

I found employers of labor ready and willing to adopt any advice tending to improve the service or lessen the chances for accidents and in no case was I required to exert authority beyond a written order.

I am, respectfully,
FRANK W. MURRAY, Inspector.

TABLE I.—FACTORY INSPECTION.
Country District Inspected by F. W. Murray.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections	Wage Earners				Regular Night Work	Regular Sunday Work	No. of Inspections	Wage Earners				Regular Night Work	Regular Sunday Work	Number of Persons					
		Total Number	Adults		Under 16 Years				Total Number	Adults		Under 16 Years								
			Male	Fe- male						Male	Fe- male					Male	Fe- male			
Anoka—Anoka County.																				
Cement stone and cement sidewalks	1	89	65	20	3	1	1		3	15	15									
Boots and shoes, factory product	2	5	3	3				1	1	60	34	21	5		1					
Bottling	2	5	2	3				2		3	2									
Bread and other bakery products	1	10	8	2																
Clothing, men's, custom work and repairing	1	1	1						1	3	3				1					
Electric light and waterworks	1	65	65				2	1	3	59	59				1					
Flouring and grist mill products	4	65					15	1												
Foundry and machine shop products	1	4	4					1												
Laundry work	2	6	3	3					2	8	2	6								
Lumber, planing mill products	3	27	27						2	53	53			1	1					
Inc. sash, door and blinds	1	6	6				2		1	5	5									
Monuments and tombstones	3	14	10	3	1			3		12	7	4	1							
Printing	3	19	19																	
Railroad work—track repairing and switch blocking	3	19	19					5	3	17	17				5					
Saddlery and harness	2	6	6																	
Retail mercantile est.	4	22	10	11	1															
Other inspections	1	15	15				2	15												
Total	30	293	244	43	5	1	22	26	22	237	200	31	6		4					

Coon Creek—Anoka County.

Brick and tile.....	1	26	26	1	1	1	62	60	2	1	1
Railroad work—track repairing and switch blocking.....	1	3	3	1	1	2	12	12	1	3	3
Total.....	2	29	29	2	2	3	74	72	3	4	4

Detroit—Becker County.

Blacksmithing and wheel- wrighting.....								4			
Boat building.....						1	4	4			
Bread and other bakery products	1	1	1			1	2	2	1		
Bottling.....						1	2	2			
Cement stone and cement											
sidewalks.....	2	23	21	2		2	24	24			
Cigars.....	2	4	3	1		1	2	2			
Electric lighting and water.....	1	3	3			1	3	3			
Flouring and grist mill products	1	12	12	1	1	1	9	9		1	1
Foundry and machine shop											
products.....											
Grain cleaning and storing.....	2	3	3			1	2	2			
Laundry work.....	1	7	3	4		2	4	4			
Lumber, planing mill products- Inc. sash, door and blinds.....	1	5	5			2	9	9			
Printing.....	1	6	4	2		1	8	6	2		
Railroad work, track repairing and switch blocking.....	2	12	12			2	15	15			3
Total.....	14	76	67	7	2	19	97	88	9	1	4

Itasca—Anoka County.

Railroad work—track repairing and switch blocking.....						2	14	14			3
Total.....						2	14	14			3

Frazee—Becker County.

Flouring and grist mill products	1	4	4			1	3	3			
Grain cleaning and storing.....	1	2	2			1	1	1			
Lumber, planing mill products, Inc. sash, door and blinds.....	1	42	40			1	12	12			
Lumber and timber.....	1	155	150	60		1	172	172			
Printing.....	1	5	3			1	3	2	1		
Railroad work—track repairing and switch blocking.....	2	16	16			4	6	6			2
Total.....	7	224	215	9	60	6	197	196	1		2

TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905						1906					
	Wage Earners			Regular Night Work			Wage Earners			Regular Night Work		
	No. of Inspections	Total Number	Adults	Under 16 Years	Male	Female	No. of Inspections	Total Number	Adults	Under 16 Years	Male	Female
Lake Park—Becker County.												
Railroad work—track repairing and switch blocking.....	1	7	7				2					
Total.....	1	7	7				2					
Sauk Rapids—Benton County.												
Flour and grist milling products												
Creamery products.....	1	2	2									
Grain cleaning and storing.....	1	2	2									
Lumber, planing mill products.	1	18	18									
Inc. sash, door and blinds.....	1	170	170									
Lumber and timber.....	1	4	4									
Monuments and tombstones.....	2	6	5	1								
Printing.....	1	6	6									
Railroad work—track repairing and switch blocking.....	1	6	6				2					
Total.....	8	208	206	1	1		6	31				
Barnesville—Clay County.												
Creamery products.....	1	3	3									
Bread and other bakery products	1	1	1									
Cigars.....	1	2	2									
Electric lighting.....	1	2	2									
Flouring and grist mill products	1	4	4				1					
Grain cleaning and storing.....	1	4	4									
Printing.....	1	3	3				3					

Railroad work—shops and round houses	1	106	105							14	6	1	185	185						15	25
Railroad work—track repairing and switch blocking	1	7	7									1	8	8						1	1
Water works												1	2	2							
Total	11	129	128	1						15	7	12	212	211	1					17	27
Sartell—Stearns County.																					
Flour and grist milling products												2	8	8							
Lumber, planing mill products												1	15	15						1	1
Paper mill												1	150	150							
Total												4	173	173						1	1
Moorhead—Clay County.																					
Agricultural machinery and implements	1	4	4									1	4	4							
Bottling	2	14	14									2	9	9							
Bread and other bakery products	1	1	2									1	3	2							
Brick and tile	3	52	52							2		1	25	25							
Cigars	1	3	3									1	1	1							
Electric lighting	1	7	5							1		1	4	4							
Flouring and grist mill products	1	25	23							2	1	1	20	20						2	1
Foundry and machine shop products	1	15	15									1	12	12						8	
Grain cleaning and storing	2	4	4									2	3	3							
Printing	3	10	9							1		3	8	7							
Railroad work—track repairing and switch blocking	2	12	12								1	2	16	16							3
Tents and awnings	1	12	4							8											
Total	19	162	147	15						5	3	16	105	103	1					10	6
Winnipeg Junction—Clay County.																					
Railroad work—shop and round house	1	20	20							3	6	1	34	34						8	10
Railroad work—track repairing and switch blocking	1	7	7								2	1	8	8							2
Total	2	27	27							3	8	2	42	42						8	12

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905											1906											
	Wage Earners				No. of Inspections	Regular Night Work	Regular Sunday Work	No. of Inspections	Wage Earners				Regular Night Work	Regular Sunday Work	No. of Persons	Regular Night Work	Regular Sunday Work	No. of Persons					
	Adults		Under 16 Years	Male					Fe- male	Total Number	Adults								Under 16 Years	Male	Fe- male	Total Number	
	Male	Fe- male									Male	Fe- male											
Alexandria—Douglas County.																							
Creamery and storage.....	1	4	4	1	1	1	1	1	1	1	1	1	1	1	41	40	1	1	1	1	1	1	1
Boat building.....	1	2	2	1	1	1	1	1	1	1	1	1	1	1	9	9	1	1	1	1	1	1	1
Bottling.....	1	3	3	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1
Bread and other bakery products.....	2	11	11	1	1	1	1	1	1	1	1	1	1	1	11	11	1	1	1	1	1	1	1
Brewing.....	2	13	10	3	1	1	1	1	1	1	1	1	1	1	13	10	3	1	1	1	1	1	1
Cigars.....	3	3	3	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1
Electric lighting.....	1	3	3	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1
Flouring and grist mill products.....	3	11	11	1	1	1	1	1	1	1	1	1	1	1	12	10	1	1	1	1	1	1	1
Food and machine shop.....	1	2	2	1	1	1	1	1	1	1	1	1	1	1	4	4	1	1	1	1	1	1	1
Furniture and cabinet making.....	2	35	34	1	1	1	1	1	1	1	1	1	1	1	28	28	1	1	1	1	1	1	1
Grain cleaning and storing.....	4	8	8	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1
Laundry work.....	1	6	2	3	1	1	1	1	1	1	1	1	1	1	6	5	3	1	1	1	1	1	1
Monuments and tombstones.....	1	6	6	1	1	1	1	1	1	1	1	1	1	1	6	5	1	1	1	1	1	1	1
Printing.....	2	11	8	2	1	1	1	1	1	1	1	1	1	1	8	7	1	1	1	1	1	1	1
Railroad work—track repairing and switch blocking.....	3	10	19	1	1	1	1	1	1	1	1	1	1	1	18	18	1	1	1	1	1	1	1
Cutlery.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1	1	1	1
Cement stone and cement sidewalks.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9	9	1	1	1	1	1	1	1
Lumber, planing mill products, inc. sash, door and blinds.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	40	40	1	1	1	1	1	1	1
Wagons and sleighs.....	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1
Total.....	26	134	122	9	2	1	3	4	28	220	208	10	2	1	3	1	3	4	28	220	208	3	3

Little Falls and Pike Creek
-Morrison County.

Agricultural machinery and implements	1	10	10	1	1	20	16	4	2	2
Bottling	1	3	2	1	2	4	4	2	2	2
Bread and other bakery products	2	4	4	1	2	8	5	3	1	1
Brewing	1	13	12	1	2	9	9	4	4	4
Brick and tile	2	40	40	1	2	80	75	5	1	1
Cigars	3	15	11	4	4	13	11	1	1	1
Cooperage	1	2	2	1	1	6	6	1	1	1
Creamery products	1	5	4	1	2	8	7	1	1	3
Electric lighting	1	7	6	1	1	6	6	1	1	3
Flouring and grist mill products	2	33	31	2	2	24	23	1	2	2
Foundry and machine shop	1	12	12	1	1	4	4	1	1	1
Grain cleaning and storing	2	3	3	1	3	5	5	1	1	1
Laundry work	2	13	4	9	2	7	4	3	1	1
Lumber, planing mill products	2	64	64	1	1	30	30	1	1	3
Inc. sash, door and blinds	1	480	480	1	1	311	310	1	82	3
Monuments and tombstones	1	5	5	1	1	4	4	1	25	1
Paper	1	85	80	5	1	76	75	1	1	1
Printing	4	24	19	5	4	23	17	4	2	2
Railroad work—track repairing and switch blocking	1	8	8	2	2	11	11	1	118	15
Total	30	825	797	29	118	7	622	15	12	15

Fergus Falls—Otter Tail
County.

Bottling	1	4	4	1	2	4	4	2	1	2
Bread and other bakery products	2	6	5	1	1	5	3	2	4	4
Brewing	1	6	6	1	1	3	3	1	1	1
Burial caskets	1	18	14	4	1	16	14	2	1	1
Cement stone and cement sidewalks	2	37	13	24	2	20	20	24	2	2
Cigars	1	5	5	1	1	1	1	1	1	1
Creamery products	1	3	3	1	1	1	1	1	1	1
Electric lighting	3	30	29	1	4	28	28	7	4	2
Flouring and grist mill products	1	11	11	1	1	7	7	2	1	1
Foundry and machine shop	1	2	2	1	1	2	2	1	1	1
Grain cleaning and storing	1	11	11	1	1	11	11	4	1	1
Laundry work	2	11	3	8	2	11	4	7	1	1
Lumber, planing mill products, inc. sash, door and blinds	2	48	47	1	2	34	34	3	1	1
Monuments and tombstones	1	5	5	1	1	3	3	1	3	3
Printing	5	30	28	2	1	28	25	3	2	2

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Adults			Under 16 Years		Regular Night Work			Regular Sunday Work		Adults			Under 16 Years		Regular Night Work			Regular Sunday Work	
	Total Number	Male	Fe- male	Male	Fe- male						Total Number	Male	Fe- male	Male	Fe- male					
Fergus Falls—Cont'd.																				
Railroad work—track repairing and switch blocking.....	4	23	11	7	1	1	2	4	1	2	28	28	9	6	1	1	1	1	1	4
Woolen goods.....	1	19	3	3	3	1	1	1	1	1	15	2	2	1	1	1	1	1	1	1
Municipal work—water works.....	1	3	3	3	3	1	1	1	1	1	2	2	2	1	1	1	1	1	1	1
Retail mercantile est.....	3	40	17	21	2	2	2	1	1	1	3	3	3	3	3	1	1	1	1	1
Tinsmithing, cornice work and roofing.....	1	3	3	3	3	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1
Total.....	34	301	229	67	3	21	12	36	9	9	250	206	44	41	7	7	7	7	7	9
Perham—Otter Tail County.																				
Bread and other bakery products.....	1	4	2	2	2	1	1	1	1	1	4	4	4	4	4	1	1	1	1	1
Brewing.....	1	8	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cigars.....	1	5	3	1	1	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1
Creamery products.....	1	3	2	1	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1
Electric lighting and water works.....	1	3	3	3	3	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1
Flouring and grist mill products.....	2	21	21	21	21	1	1	1	1	1	16	16	16	16	16	1	1	1	1	1
Foundry and machine shop products.....	1	4	4	4	4	1	1	1	1	1	3	3	3	3	3	1	1	1	1	1
Grain cleaning and storing.....	1	2	2	2	2	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1
Laundry work.....	1	4	3	1	1	1	1	1	1	1	4	4	4	4	4	1	1	1	1	1
Lumber, planing mill products, inc. sash, door and blinds.....	1	4	2	2	2	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1
Monuments and tombstones.....	1	12	12	12	12	1	1	1	1	1	6	6	6	6	6	1	1	1	1	1
Printing.....	2	8	8	8	8	1	1	1	1	1	8	8	8	8	8	1	1	1	1	1
Railroad work—track repairing and switch blocking.....	1	8	8	8	8	1	1	1	1	1	10	10	10	10	10	1	1	1	1	4

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TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906											
	Wage Earners					No. of Inspections	Regular Night Work					Wage Earners					No. of Inspections	Regular Night Work				
	Total Number	Adults	Male	Fe- male	Under 16 Years		Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons	Adults	Male	Fe- male	Under 16 Years	Regular Night Work	Number of Persons		Regular Sunday Work	Number of Persons			
Sauk Center—Cont'd.																						
Railroad work—track repairing and switch blocking.....	4	22	22			4		3		4	22	22					4					4
Wagons, carriages and sleighs.....	1	88	88			1		1		1	102	102					1					
Retail mercantile (est.).....	1	16	9	7																		
Cement stone and cement sidewalks										1	3	3										
Total.....	20	185	170	14	1	5	5	5		17	173	166	6	1			1					5
St. Cloud—Stearns County.																						
Bottling	1	4	4							2	7	7										
Bread and other bakery products.....	4	12	10	1						4	13	12	1									
Brewing	2	16	15	1				6		2	16	16										2
Brick and tile.....	1	3	3																			
Brooms	1	4	4							1	4	4										
Cement stones and cement sidewalks	2	10	10							2	13	13										
Cigars	6	50	43	6	1					6	53	42	9	2								
Confectionary	1	9	3	6						1	3	2	1									
Cooperage	1	5	5							1	4	4										
Creamery products.....	1	15	10	5						2	11	10	1									1
Electric lighting and street car power plant.....	1	46	36	2	8					2	24	24										1
Flouring and grist mill products.....	2	42	41	1				16		2	39	39										13
Foundry and machine shop products	2	27	27					2		3	35	35										1
Laundry work	2	18	6	12						3	21	8	13									

Lumber, planing mill products.	3	31	31	3	31	31	31	31	31	216	45	4	1	433	430	2	1	10	3
Inc. sash, door and blinds.	5	61	61	5	61	61	61	61	61	216	45	4	1	433	430	2	1	10	3
Monuments and tombstones.	6	42	38	3	3	3	3	3	3	216	45	4	1	433	430	2	1	10	3
Printing	2	422	408	2	12	3	2	2	2	433	430	2	1	433	430	2	1	10	3
Railroad work—shop and round house	2	422	408	2	12	3	2	2	2	433	430	2	1	433	430	2	1	10	3
Railroad work—track repairing and switch blocking	2	15	15	2	1	2	2	2	2	433	430	2	1	433	430	2	1	10	3
Sheet metal and cornice work.	1	6	6	1	1	1	1	1	1	433	430	2	1	433	430	2	1	10	3
Stone cutting	3	116	116	3	1	3	3	3	3	433	430	2	1	433	430	2	1	10	3
Street railway shop work.	3	116	116	3	1	3	3	3	3	433	430	2	1	433	430	2	1	10	3
Wagons, carriages and sleighs.	1	21	21	1	1	1	1	1	1	433	430	2	1	433	430	2	1	10	3
Water works—municipal.	1	16	16	1	1	1	1	1	1	433	430	2	1	433	430	2	1	10	3
Retail mercantile (est.)	1	3	3	1	1	1	1	1	1	433	430	2	1	433	430	2	1	10	3
Clothing—custom work and repairing	2	43	18	2	2	2	2	2	2	433	430	2	1	433	430	2	1	10	3
Total	54	1,037	950	62	25	23	32	63	1,066	1,029	33	4	17	28					
Long Prairie—Todd County.																			
Brick	1	3	3	1	1	1	1	1	1	7	7	1	1	7	7	1	1	1	1
Bottling	1	2	2	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1
Bread and other bakery products	1	3	3	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1
Brewing	1	3	3	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1
Cigars	1	5	5	1	1	1	1	1	1	4	4	1	1	4	4	1	1	1	1
Creamery products	2	4	4	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1
Electric lighting and water works	1	3	3	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1
Flouring and grist mill products	1	6	6	1	1	1	1	1	1	6	6	1	1	6	6	1	1	1	1
Foundry and machine shop products.	1	5	5	1	1	1	1	1	1	3	3	1	1	3	3	1	1	1	1
Grain cleaning and storing.	3	6	6	1	1	1	1	1	1	4	4	1	1	4	4	1	1	1	1
Lumber, planing mill products.	3	6	6	1	1	1	1	1	1	4	4	1	1	4	4	1	1	1	1
Inc. sash, door and blinds.	2	20	20	1	1	1	1	1	1	6	6	1	1	6	6	1	1	1	1
Printing	3	14	13	1	1	1	1	1	1	11	10	1	1	11	10	1	1	1	1
Railroad work—track repairing and switch blocking	1	5	5	1	1	1	1	1	1	6	6	1	1	6	6	1	1	1	1
Total	18	76	73	3	3	2	2	17	57	55	2	1	1	57	55	2	1	2	2
Staples—Todd County.																			
Brick	1	7	7	1	1	1	1	1	1	8	8	1	1	8	8	1	1	1	1
Bread and other bakery products	1	3	3	1	1	1	1	1	1	9	9	2	2	9	9	2	2	2	2
Electric lighting	1	6	6	1	1	1	1	1	1	2	2	1	1	2	2	1	1	1	1
Flouring and grist mill products	1	6	6	1	1	1	1	1	1	5	5	1	1	5	5	1	1	1	1
Laundry work	1	3	3	1	1	1	1	1	1	3	3	1	1	3	3	1	1	1	1
Lumber, planing mill products.	1	15	15	1	1	1	1	1	1	5	5	1	1	5	5	1	1	1	1
Inc. sash, door and blinds.	1	15	15	1	1	1	1	1	1	5	5	1	1	5	5	1	1	1	1

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Total Number			Under 16 Years		Regular Night Work			Number of Persons		Total Number			Under 16 Years		Regular Night Work			Number of Persons	
	Male	Fe- male	Adults	Male	Fe- male	Male	Fe- male	Adults	Male	Fe- male	Male	Fe- male	Adults	Male	Fe- male	Male	Fe- male	Adults	Male	Fe- male
Staples—Cont'd.																				
Printing	1	3	2	1																
Railroad work—shop and round-houses	1	72	72					24	16											
Railroad work—truck repairing and switch blocking	1	22	22						9											
Total	9	131	128	3				27	28											
Wadena—Wadena County.																				
Bottling	1	2	2																	
Bread and other bakery products	1	6	6																	
Brewing	1	6	6																	
Cement stones and cement sidewalks	1	6	6																	
Cigars	1	2	2																	
Cookies and biscuits	1	39	28	11																
Creamery products	1	13	10	3																
Electric lighting	1	3	3					1												
Flouring and grist mill products	1	1	3																	
Foundry and machine shop products	1	8	8																	
Grain cleaning and storing	1	6	6																	
Laundry work	3	4	4																	
Lumber, planing mill products	1	6	1	5																
Inc. sash, door and blinds	1	8	8																	
Monuments and tombstones	1	6	6																	

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TABLE II.—SUMMARY OF INSPECTIONS BY TOWNS.
Country Districts Inspected by F. W. Murray.

COUNTY	TOWN	1905										1906																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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		Adults			Under 16 Years		Total Number	Regular Night Work	Regular Sunday Work	Number of Persons	Adults			Under 16 Years		Total Number	Regular Night Work	Regular Sunday Work	Number of Persons																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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TABLE III.—SUMMARY OF INSPECTIONS BY INDUSTRIES.
Country Districts Inspected by F. W. Murray.

INDUSTRIES	1905										1906									
	No. of Inspections	Wage Earners					Regular Night Work	Regular Sunday Work	Number of Persons	No. of Inspections	Wage Earners					Regular Night Work	Regular Sunday Work	Number of Persons		
		Total Number	Adults		Under 16 Years	Total Number					Adults		Under 16 Years							
			Male	Fe- male							Male	Fe- male		Male	Fe- male					
Agricultural machinery and im- plements.....	2	14	14	.....	.....	.....	.....	.....	2	24	20	.....	.....	.....	.....	.....	2
Boat building	1	4	4	.....	.....	.....	.....	.....	2	11	11	.....	.....	.....	.....	.....	2
Boots and shoes, factory prod- ucts	22	69	46	12	2	.....	.....	.....	2	60	34	21	.....	.....	.....	.....	.....
Bottling	9	38	34	4	.....	.....	.....	.....	1	33	33	.....	.....	.....	.....	.....	.....
Bread and other bakery products	22	59	46	12	2	.....	.....	.....	2	58	44	14	.....	.....	.....	.....	.....
Brewing	10	69	67	2	.....	.....	.....	.....	6	55	55	.....	.....	.....	.....	.....	.....
Brick and tile	7	120	120	.....	.....	.....	.....	.....	3	157	150	.....	.....	.....	.....	.....	.....
Brooms	1	4	4	.....	.....	.....	.....	.....	1	4	4	.....	.....	.....	.....	.....	.....
Burial cases and coffins.....	1	18	14	4	.....	.....	.....	.....	1	16	14	2	.....	.....	.....	.....	.....
Cement stones and cement side- walks	5	39	37	.....	.....	.....	.....	.....	14	122	122	.....	.....	.....	.....	.....	.....
Cigars	23	148	106	39	3	.....	.....	.....	22	145	102	40	.....	.....	.....	.....	.....
Clothing, men's custom work...	1	10	8	.....	.....	.....	.....	.....	4	15	13	.....	.....	.....	.....	.....	.....
Confectionery	1	9	3	6	.....	.....	.....	.....	1	3	2	.....	.....	.....	.....	.....	.....
Cooperage	2	7	7	.....	.....	.....	.....	.....	2	10	10	.....	.....	.....	.....	.....	.....
Crackers and biscuits	1	39	28	11	.....	.....	.....	.....	1	43	27	15	.....	.....	.....	.....	.....
Creamery products	12	53	41	10	2	.....	.....	.....	14	119	106	13	.....	.....	.....	.....	.....
Electric lighting, including one power plant	11	82	69	5	8	.....	.....	.....	7	34	34	.....	.....	.....	.....	.....	.....
Electric lighting and waterworks	3	7	7	.....	.....	.....	.....	.....	7	23	23	.....	.....	.....	.....	.....	.....
Flouring and grist mill products	27	303	295	8	.....	.....	.....	.....	31	275	272	2	.....	.....	.....	.....	.....
Foundry and machine shop	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Products	10	86	86	.....	.....	.....	.....	.....	1	80	80	.....	.....	.....	.....	.....	.....
Furniture and cabinet making...	2	35	34	.....	.....	.....	.....	.....	12	28	28	.....	.....	.....	.....	.....	.....
Grain cleaning and storing.....	28	51	51	.....	.....	.....	.....	.....	29	44	44	.....	.....	.....	.....	.....	.....
Laundry work	14	80	29	49	2	.....	.....	.....	15	80	30	49	.....	.....	.....	.....	.....

TABLE III.—Continued.

	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Adults				Under 16 Years	Total Number	Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons	Adults				Under 16 Years	Total Number	Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons
	Male	Fe- male	Male	Fe- male							Male	Fe- male	Male	Fe- male						
Lumber, planing mill products, incl. sash, door and blinds...	19	288	283	5	5	5	5	4	18	562	561	1	1	1	1	1	85	85	6	6
Lumber and timber...	3	805	800	5	5	175	2	2	2	322	322	322	322	322	322	322	35	35	1	1
Monuments and tombstones...	14	143	143	1	1	1	1	1	16	332	332	332	332	332	332	332	35	35	2	2
Paper...	1	85	80	5	5	24	1	1	38	236	236	236	236	236	236	236	2	2	2	2
Printing...	39	199	165	29	4	1	1	1	5	183	146	30	7	1	1	1	2	2	2	2
Railroad work, shop and round- houses...	6	659	645	2	12	51	35	35	5	789	788	2	1	1	1	1	69	69	103	103
Railroad work, track repairing and switch blocking...	40	288	288	6	6	60	60	60	52	355	355	355	355	355	355	355	1	1	63	63
Saddlery and harness...	2	6	6	6	6	6	6	6	4	15	15	15	15	15	15	15	1	1	1	1
Sheet metal work and roofing...	3	116	116	1	1	1	1	1	2	13	13	13	13	13	13	13	1	1	1	1
Stone cutting...	1	21	21	1	1	1	1	1	1	16	16	16	16	16	16	16	1	1	1	1
Street railway, shop work...	1	12	12	4	8	1	1	1	4	117	117	117	117	117	117	117	1	1	1	1
Tents and awnings...	3	111	111	1	1	1	1	1	4	117	117	117	117	117	117	117	1	1	1	1
Wagons, carriages and sleighs...	2	16	16	1	1	2	2	2	3	8	8	8	8	8	8	8	3	3	3	3
Water works, municipal...	2	19	19	1	1	1	1	1	2	15	15	15	15	15	15	15	1	1	1	1
Woolen goods...	2	127	127	65	3	2	2	2	2	15	15	15	15	15	15	15	1	1	1	1
Wooden goods...	11	57	57	3	2	1	1	1	1	3	3	3	3	3	3	3	1	1	1	1
Retail mercantile establishments	1	15	15	1	1	2	2	2	1	3	3	3	3	3	3	3	1	1	1	1
Other inspections	343	4,250	3,905	288	53	4	346	174	384	4,405	4,176	199	39	1	1	1	293	293	290	290
Total																				

TABLE IV.—Number of Establishments and Number of Wage Earners in Specified Industries Grouped According to Daily and Weekly Working Time.
Country District Inspected by F. W. Murray.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Agricultural machinery and implements	2	14	10	60	2	24	10	60
Boat building	1	4	10	60	2	11	10	60
Boots and shoes, factory products	1	89	9	54	1	60	10	60
Bottling	1	4	9½	57	12	33	10	60
Bread and other bakery products	8	34	10	60	12	33	10	60
Brewing	1	4	8½	51	18	49	10	60
Brick and tile	14	2	9	54	18	49	10	60
Brooms	4	35	10	60	18	49	10	60
Burial cases and coffins	2	11	11	66	18	49	10	60
Cement stones and cement sidewalks	2	7	12	72	18	49	10	60
Cigars	2	12	10	60	9	43	10	60
Clothing, men's, custom work	5	30	12	72	2	9	12	72
Confectionery	3	27	10-12	60-72	1	12	10-12	60-72
Cooperage	1	3	9	54	1	12	10-12	60-72
Crackers and biscuits	6	117	10	60	5	157	10	60
Creamery products	1	4	10	60	1	4	9	54
Cigars	1	18	10	60	1	16	10	60
Clothing, men's, custom work	5	39	10	60	14	122	10	60
Confectionery	7	36	8	48	19	129	8	48
Cooperage	2	35	8½	51	2	15	9	54
Crackers and biscuits	9	33	9	54	1	1	10	60
Creamery products	5	44	10	60	1	1	10	60
Clothing, men's, custom work	1	10	10	60	5	15	9	54
Confectionery	1	9	10	60	1	3	10	60
Cooperage	1	5	8	48	2	10	9	54
Crackers and biscuits	1	5	10	60	1	43	10	60
Creamery products	7	37	10	60	13	117	10	60
Clothing, men's, custom work	1	5	12	72	1	2	13	78
Confectionery	3	6	13	78	1	2	13	78
Cooperage	1	5	10-12	60-72	1	22	10½	63
Crackers and biscuits	2	49	10	60	6	12	12	72
Creamery products	2	19	12	72	6	12	12	72
Clothing, men's, custom work	2	14	10-12	60-72	1	6	11-13	66-78
Confectionery	1	1	10	60	1	3	10	60
Cooperage	2	6	12	72	4	12	12	72
Crackers and biscuits	1	1	10	60	1	2	14	84
Creamery products	2	6	12	72	1	6	11-13	66-78
Clothing, men's, custom work	1	30	8	48	2	35	8	48
Confectionery	11	129	10	60	21	133	10	60
Cooperage	3	26	11	66	2	6	11	66
Crackers and biscuits	6	33	12	72	1	7	12	72
Creamery products	6	85	10-12	60-72	1	45	10-11	60-66
Clothing, men's, custom work	10	86	10	60	4	49	10-12	60-72
Confectionery	1	22	10	60	12	106	10	60
Cooperage	1	13	13	78	1	28	10	60
Crackers and biscuits	1	13	13	78	1	28	10	60
Creamery products	5	12	10	60	29	44	10	60
Clothing, men's, custom work	23	39	12	72	1	7	12	72
Confectionery	12	68	10	60	1	6	9	54
Cooperage	2	12	11	66	1	3	10	45
Crackers and biscuits	2	12	11	66	13	71	10	60
Creamery products	15	153	10	60	17	547	10	60
Clothing, men's, custom work	2	102	11	66	1	15	8-10	48-60
Confectionery	1	18	12	72	1	15	8-10	48-60
Cooperage	1	15	10-12	60-72	1	15	8-10	48-60

TABLE IV—Continued.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Lumber and timber.....	1	170	10	60	1	150	10	60
Monuments and tombstones..	2	635	11	66	1	172	10-11	60-66
	4	42	8	48	13	231	8	48
	2	10	9	54				
	1	6	10	60	2	36	10	60
	5	48	8-9	48-54				
	2	37	8-10	48-60	1	65	8-10	48-60
Paper	1	85	10	60	1	150	10	60
Printing	5	21	8	48	7	25	8	48
	18	90	9	54	21	115	9	54
					1	13	9½	57
	15	81	10	60	9	30	10	60
	1	7	8-9	48-54				
Railroad work, shop and roundhouses	4	567	10	60	1	433	10	60
	2	92	10-12	60-72	3	266	9-12	54-72
Railroad work, track repairing and switch blocking.....	40	268	10	60	52	365	10	60
Saddlery and harness.....	2	6	10	60				
Sheet metal work and roofing	1	6	10	60	2	10	9	54
	3	116	8-9	48-54	2	5	10	60
Stone cutting	1	21	10	60	1	16	9	54
Street railway, shop work.....	1	12	10	60				
Tents and awnings.....								
Wagons, carriages and sleighs	3	111	10	60	4	117	10	60
Waterworks, municipal	2	6	12	72	1	4	8	48
					2	4	12	72
Woolen goods	2	19	10	60	2	15	10	60
Retail mercantile establishments	2	12	9	54				
	6	75	10	60				
	3	40	11	66				
Other inspections	1	15	10	60	1	3	10	60
Total	343	4,250			364	4,405		

TABLE V.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I of Country District Inspected by F. W. Murray.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	.....	.....	Less than 48	.....	3
8	134	437	48	134	437
8½	39	.....	51	39	.....
9	239	191	54	239	191
9½	4	13	57	4	13
10	2,380	2,892	60	2,380	2,889
10½	.....	22	63	.....	22
11	826	6	66	826	6
12	163	44	72	163	44
13	19	2	78	19	4
14	.....	2	.....	.....	.....
8 and 9	171	.....	48 to 54	171	.....
8 and 10	37	80	48 to 60	37	80
9 and 12	.....	90	54 to 72	.....	90
10 and 12	238	403	60 to 72	238	403
10 and 11	.....	217	60 to 66	.....	217
11 and 13	.....	6	66 to 78	.....	6
Total.....	4,250	4,405	Total.....	4,250	4,405

FACTORY INSPECTION IN THE RURAL DISTRICT BY
L. P. TORGERSON, INSPECTOR.

LETTER OF TRANSMITTAL.

Mr. W. H. Williams, Commissioner of Labor.

Dear Sir: In compliance with instructions I have made inspections of factories and workshops in the country district assigned to me, during the years 1905 and 1906.

My report herewith submitted shows 124 inspections in twelve cities and towns in 1905, and 113 inspections in the same number of towns during 1906.

The report shows a decrease in the number of persons employed in 1906 as compared with 1905, and an increase of children under 16 years. In explanation of the latter fact it should be said that the majority of the children were boys employed in brick yards at the time when the schools in this particular district had closed for the summer vacation. I desire to call attention to the advisability of state control over non-attendance at school in the country districts.

Very respectfully,

LOUIS P. TORGERSON, Inspector.

TABLE 1.—FACTORY INSPECTION.
Country District Inspected by L. P. Torgerson.

TOWN AND COUNTY INDUSTRIES	1905										1906											
	Wage Earners					No. of Inspections	Regular Night Work			Number of Persons	Wage Earners					No. of Inspections	Regular Night Work			Number of Persons		
	Total Number		Adults		Under 16 Years		Regular Night Work	Number of Persons	Total Number		Adults		Under 16 Years		Regular Night Work		Number of Persons					
	Male	Female	Male	Female							Male	Female	Male	Female						Male	Female	
Foley—Benton County.																						
Bread and other bakery products	1	3	1	2						1	2	1	1							1	1	
Cooperage	1	38	35	3						1		57	50	4	3							
Flouring and grist mill products	1	7	7					3		1		8	8									
Printing	1	3	2	1				2		1		4	3	1								
Railroad work, track repairing and switch yard blocking	2	9	9							1		9	9									
Creamery										1		2	2									
Total	6	60	54	6			2	5		6		82	73	6	3							
North Branch—Chicago County.																						
Blacksmithing and wheelwrighting	1	5	5							1		8	8									
Flouring and grist mill products	1	6	6							1		7	7									
Laundry work	1	3	1		2					1		3	1	2								1
Railroad work, track repairing and switch-yard blocking	1	5	5					1		1		8	8									
Total	4	19	17		2			1		4		26	24	2								1
Rush City—Chicago County.																						
Bottling																						
Bread and other bakery products	1	3	3							1		2	2									
Cigars	1	7	7							1		3	3									
Creamery products	1	2	2							1		2	2									

TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections	Regular Night Work			Number of Persons	Wage Earners					No. of Inspections	Regular Night Work			Number of Persons
	Total Number			Adults			Under 16 Years	Male	Fe- male		Total Number			Adults			Under 16 Years	Male	Fe- male	
Rush City—Cont'd.																				
Electric light plant.....	1	2	2	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flouring and grist mill products	1	5	5	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Printing	1	5	4	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work, track repairing and switch-yard blocking.....	1	7	7	.....	.....	2	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	7	31	30	1	.....	1	.....	.....	.....	2	.....	.....	.....	.....	.....	8	31	29	2	1
Albert Lea—Freeborn County.																				
Agricultural machinery and implements	1	6	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Blacksmithing and wheelwrighting	2	8	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bottling—carbonated beverages	1	6	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bread and other bakery products	4	13	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Carpets and rugs	1	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cigars	3	23	23	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Clothing, factory products	3	118	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Creamery products	1	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Electric light and power plant	1	10	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Flouring and grist mill products	2	13	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Foundry and machine shop products	1	17	16
Hotel	1	3	3
Gas illuminating	1	3	3
Laundry work	2	29	9

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TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults		Under 16 Years	Number of Persons	Regular Night Work	Regular Sunday Work	Number of Persons	Regular Sunday Work	Number of Persons	Total Number	Adults		Under 16 Years	Number of Persons	Regular Night Work	Regular Sunday Work	Number of Persons	Regular Night Work	Regular Sunday Work
		Male	Female									Male	Female							
Princeton—Mille Lacs County																				
Bottling	1	2	2								1	3	2	1						
Bread and other bakery products	2	8	4								2	10	5							
Brick and tile	5	145	145	4				5			5	119	107	12						
Cigars	1	7	2	5								2	2							
Creamery products	1	2	2								1	2	2							
Electric light and water plant	1	3	2				1				1	2	2							
Flouring and grist mill products	1	8	8								1	8	7	1				1		1
Laundry work	1	3	1	2							1	4	1	3						
Lumber, planing mill products	1	3	1								1	4	1							
Inc'l. sash, door and blinds	1	2	2								1	3	3							
Printing	2	3	7	2				2			2	9	8	1						
Railroad work, track repairing	2	10	10					1			2	10	10							1
and switch-yard blocking	1	7	5	2																
Department store	1	7	5	2																
Total	19	206	191	15			1	1			17	171	148	11	12			1		2
Finlayson—Pine County																				
Railroad work, track repairing																				
and switch-yard blocking	1	5	5					1			1	6	6							
Total	1	5	5					1			1	6	6							
Pine City—Pine County																				
Bread and other bakery products	1	5	5								1	3	1	2						
Brewing	1	5	5								1	6	6							

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TABLE II.—SUMMARY OF INSPECTIONS BY TOWNS.
Country District Inspected by L. P. Togerson.

COUNTY	TOWN	1905										1906									
		No. of Inspections					Regular Sunday Work					No. of Inspections					Wage Earners				
		Total Number					Regular Night Work					Total Number					Adults				
		Male	Fe- male	Under 16 Years	Fe- male	Under 16 Years	Male	Fe- male	Under 16 Years	Fe- male	Under 16 Years	Male	Fe- male	Under 16 Years	Fe- male	Under 16 Years	Male	Fe- male	Under 16 Years	Fe- male	Under 16 Years
Benton.....	Foley	60	54	6	2	1	2	1	1	1	1	16	6	6	82	73	6	3	3	1	1
Chicago.....	North	19	17	4	2	1	1	1	1	1	1	4	4	2	28	24	2	2	2	1	1
Chicago.....	Rush City	31	30	7	1	1	1	1	1	1	1	38	38	2	31	29	2	3	3	32	72
Freeborn.....	Albert Lea	501	338	43	161	57	57	57	57	57	57	97	97	110	393	290	110	3	3	3	3
Kanabec.....	Mora	25	23	9	2	2	2	2	2	2	2	1	1	8	8	8	8	8	8	8	8
Millie Lacs.....	Millaca	296	293	12	3	3	3	3	3	3	3	10	10	138	143	138	5	5	5	5	5
Millie Lacs.....	Princeton	296	191	19	15	1	1	1	1	1	1	17	17	148	171	148	11	12	12	1	2
Millie Lacs.....	Finlayson	5	5	1	1	1	1	1	1	1	1	1	1	6	6	6	6	6	6	6	6
Pine County.....	Pine County	66	65	10	1	1	1	1	1	1	1	10	10	51	48	48	3	3	3	1	1
Pine County.....	Pine City	5	5	1	1	1	1	1	1	1	1	1	1	6	6	6	6	6	6	6	6
Pine County.....	Rutledge	295	293	9	2	8	8	8	8	8	8	14	14	498	444	498	6	6	6	1	1
Pine County.....	Sandstone	165	165	3	4	4	4	4	4	4	4	3	3	165	165	165	1	1	1	1	1
Pine County.....	Willow River.....	124	1,479	191	4	136	136	136	136	136	136	113	113	1,527	1,363	140	24	24	24	46	81
Total.....	1,674	1,479	191	4	136	136	136	136	136	136	113	113	1,527	1,363	140	24	24	24	46	81

INDUSTRIES

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TABLE III.—Continued.

INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Adults			Under 16 Years		Regular Night Work			Regular Sunday Work		Adults			Under 16 Years		Regular Night Work			Regular Sunday Work	
	Total Number	Male	Female	Male	Female	No. of Inspections	Number of Persons	Number of Persons	Number of Persons	Number of Persons	Total Number	Male	Female	Male	Female	No. of Inspections	Number of Persons	Number of Persons	Number of Persons	Number of Persons
Gas illuminating.....	3	3				1	1				1	1				1	1			
Grain cleaning and storing.....	1	1				1	1				1	1				1	1			
Laundry work.....	5	38	12	24		5					4	45	10	35		4	7			
Lumber, planing mill products, inc. sash, door and blinds.....	5	59	59			5	3				5	58	58			5	58			
Lumber and timber.....	4	404	404			4	58				3	238	237	1		3	237			
Plumbing and steam and gas fitting.....	1	4	4			1					1					1				
Printing.....	16	77	60	17		16					12	68	55	13		12	68			
Railroad work—shops and round-houses.....	5	122	122			5	51				2	66	66			2	66			
Railroad work—track repairing and switch blocking.....	19	102	102			19	89				17	109	109			17	109			
Stone quarries.....	2	232	232			2	15				8	364	359			8	364			
Wagons, carriages and sleighs.....	2	11	11			2	4				2	15	15			2	15			
Municipal work.....	2	4	4			2	1				1	2	2			1	2			
Department stores.....	2	36	24	12		2	2				1					1				
Telegraph, telephone and messenger companies.....	1	9	4	5		1	2				1	6	6			1	6			
Wholesale mercantile est.....	1	20	16	4		1					1	13	9	10		1	13			
Other inspections.....																				
Total.....	124	1,674	1,479	191	4	124	136	124	113	1,527	1,363	1,400	24	46	81	124	1,527	1,363	140	24

TABLE IV.—Number of Establishments and Number of Wage Earners in Specified Industries Grouped According to Daily and Weekly Working Time.
Country District Inspected by L. P. Togerson.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Agricultural machinery and implements	2	11	10	60	2	23	10	60
Automobiles and bicycle repairing	1	2	10	60				
Blacksmithing and wheel-wrighting	2	8	10	60	1	8	10	60
Bottling	2	8	10	60	1	4	8	48
					2	5	10	60
Bread and other bakery products	2	6	8	48	1	5	8	48
	1	5	9	54	2	7	9	54
	7	20	10	60	7	16	10	60
Brewing	1	5	10	60	1	6	10	60
Brick and tile	5	145	10	60	6	144	10	60
Cement stones and cement sidewalks	1	30	10	60	2	61	10	60
Cigars	5	32	8	48	4	17	8	48
	1	8	10	60				
Clothing, factory product	3	118	10	60	2	68	10	60
Carpets and rugs	1	5	10	60				
Cooperage	1	38	10	60	1	57	10	60
Creamery products	2	4	8	48	1	4	8	48
	5	13	10	60	5	10	10	60
Electric lighting	7	32	10	60	4	10	10	60
					1	10	12	84
Flouring and grist mill product	8	45	10	60	8	55	10	60
Foundry and machine shop products	1	17	10	60	2	25	10	60
Gas illuminating	1	3	12	72	1	1	12	72
Grain cleaning and storing	1	1	10	60	4	7	10	60
Laundry work	4	35	10	60	4	45	10	60
	1	3	10	60				
Lumber—planing mill products, inc. sash, door and blinds	4	51	10	60	5	58	10	60
	1	8	11	66				
Lumber and timber	2	244	10	60	2	238	10	60
	1	20	11	66				
	1	140	10	60				
Plumbing and gas and steam fitting	1	4	10	60				
Printing	9	30	8	48	1	2	8	48
	4	32	9	54	11	66	9	54
	3	15	10	60				
Railroad work—shops and round houses	4	90	10	60	2	66	10	60
	1	32	11	66				
Railroad work—track repairing and switch blocking	19	102	10	60	17	109	10	60
Stone quarries	1	232	10	60	3	75	8	48
					5	289	10	60
Wagons, carriages and sleighs	1	5	9	54	2	15	10	60
	1	6	10	60				
Municipal work—water works	1	2	8	48	1	2	12	84
	1	2	12	72				
Department stores	2	36	8	48				
Telephone, telegraph and messenger companies	1	9	10	60				
Wholesale mercantile est.	1	20	10	60	1	6	10	60
Other inspections					1	13	10	60
Total	124	1,674			113	1,527		

TABLE V.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I of Country District Inspected by L. P. Togerson.

Working Hours Each Day	1905		1906	Working Hours Each Week	1905		1906
	Number of Wage Earners	Number of Wage Earners			Number of Wage Earners	Number of Wage Earners	
Less than 8	.....	.....	Less than 48	.....	.....	.....	.....
8	110	107	48	110	107	107	107
9	42	73	54	42	73	73	73
10	1,457	1,334	60	1,457	1,334	1,334	1,334
11	60	.....	66	60	.....	.....	.....
12	5	13	72	5	.....	.....	.....
Total.....	1,674	1,527	Total.....	1,674	1,527	1,527	1,527

FACTORY INSPECTION IN THE RURAL DISTRICT MADE
BY LOUIS LEVY AND FRANK E. HOFF-
MANN, INSPECTORS..

LETTER OF TRANSMITTAL.

Mr. W. H. Williams, Commissioner of Labor.

Dear Sir: Enclosed I hand you report on factory inspections in the extreme northwestern portion of the state for the years 1905 and 1906 and embracing eight cities and towns.

Mr. Louis Levy, now Superintendent of the Free Employment Bureau, but acting in the capacity of factory inspector in the early part of 1905, made the inspections during that year and I was designated to cover that territory this year, after having completed the inspections in the southern part of the state.

I am, respectfully,
FRANK HOFFMANN, Inspector.

TABLE I.—FACTORY INSPECTION.
Country District Inspected by L. Levy.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections	Wage Earners					No. of Inspections	Wage Earners					Regular Night Work	Regular Sunday Work	Number of Persons
	Adults				Under 16 Years		Adults				Under 16 Years		Adults				Male				Fe- male
	Total Number	Male	Fe- male	Under 16 Years			Total Number	Male	Fe- male	Under 16 Years		Total Number	Male	Fe- male	Under 16 Years					
Hallock—Kittson County.																				
Bread and other bakery products	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flouring and grist mill products	1	4	4	1	1	1	5	5	1	1	5	5	1	1	5	5	1	1	1	1
Grain cleaning and storing	4	10	10	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Laundry work	1	4	1	3	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1
Printing	2	6	5	1	1	2	5	4	1	2	5	4	1	1	5	4	1	1	1	1
Total	9	25	21	4	4	9	19	15	4	1	9	19	15	4	1	1	1	1	1	1
Warren—Marshall County.																				
Bread and other bakery products	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Electric light and water	1	3	3	1	1	1	3	3	1	1	3	3	1	1	3	3	1	1	1	1
Flouring and grist mill products	1	6	6	1	1	1	6	6	1	1	6	6	1	1	6	6	1	1	1	1
Foundry and machine shop products	1	5	5	1	1	1	5	5	1	1	8	8	1	1	8	8	1	1	1	1
Grain cleaning and storing	6	10	10	1	6	6	10	10	4	6	4	6	6	4	6	6	4	4	4	4
Laundry work	1	3	1	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1
Printing	2	5	5	1	2	2	5	5	1	2	2	8	8	1	2	7	1	1	1	1
Railroad work—track repairing and switch blocking	2	8	8	1	2	2	8	8	1	2	2	19	19	1	19	19	1	1	1	1
Total	15	41	39	2	2	13	53	50	3	2	13	53	50	3	2	2	2	2	2	2
Ada—Norman County.																				
Flax fibre goods	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bread and other bakery products	1	9	9	1	1	1	9	9	1	1	14	14	1	1	14	14	1	1	1	1
Brick and tile	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

[illegible]

TABLE 1.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections					Wage Earners					No. of Inspections				
	Total Number			Under 16 Years		Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons	Total Number	Total Number			Under 16 Years		Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons	Total Number
	Male	Fe- male	Adults	Male	Fe- male						Male	Fe- male	Adults	Male	Fe- male					
East Grand Forks—Polk Count																				
Brick	1	4	4	1	1	1	1	1	1	39	25	2	2	4	1	1	1	1	1	1
Bread and other bakery products	1	6	6	1	1	1	1	1	1	25	25	2	2	1	1	1	1	1	1	1
Brewing	1	2	2	1	1	1	1	1	1	3	3	5	5	1	1	1	1	1	1	1
Cigars	1	2	2	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1
Electric lighting	1	2	2	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1
Grain cleaning and storing	1	25	25	1	1	1	1	1	1	27	27	1	1	1	1	1	1	1	1	1
Lumber, planing mill products,	1	222	222	1	1	1	1	1	1	240	238	1	1	1	1	1	1	1	1	1
Inc. sash, door and blinds	1	3	3	1	1	1	1	1	1	3	2	1	1	1	1	1	1	1	1	1
Lumber and timber	1	23	23	1	1	1	1	1	1	21	21	1	1	1	1	1	1	1	1	1
Printing	1	11	11	1	1	1	1	1	1	13	13	1	1	1	1	1	1	1	1	1
Railroad work—shop and	1	11	11	1	1	1	1	1	1	13	13	1	1	1	1	1	1	1	1	1
Railroad house	1	11	11	1	1	1	1	1	1	13	13	1	1	1	1	1	1	1	1	1
Railroad work—track repairing	2	11	11	1	1	1	1	1	1	13	13	1	1	1	1	1	1	1	1	1
and switch blocking	1	11	11	1	1	1	1	1	1	13	13	1	1	1	1	1	1	1	1	1
Total	12	311	304	7	7	83	9	13	13	380	372	2	2	6	6	96	19	19	19	19
Red Lake Falls—Red Lake County.																				
Grain cleaning and storing	1	3	3	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1
Cigars	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Creamery products	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Electric lighting	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Flouring and grist mill products	1	25	25	1	1	1	1	1	1	35	35	1	1	1	1	1	1	1	1	1
Printing	2	5	3	2	2	2	2	2	2	6	5	1	1	1	1	1	1	1	1	1
Railroad work—track repairing	1	10	10	1	1	1	1	1	1	12	12	1	1	1	1	1	1	1	1	1
and switch blocking	1	10	10	1	1	1	1	1	1	12	12	1	1	1	1	1	1	1	1	1
Total	7	46	44	2	2	2	2	10	10	61	60	1	1	1	1	8	5	5	5	5

TABLE II.—SUMMARY OF INSPECTIONS BY TOWNS.
Country District Inspected by L. Levy.

COUNTY	TOWN	1905										1906									
		No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
		Total Number					Adults					Total Number					Adults				
		Male	Fe- male	Under 16 Years	Fe- male	Regular Night Work	Male	Fe- male	Under 16 Years	Fe- male	Regular Sunday Work	Male	Fe- male	Under 16 Years	Fe- male	Regular Night Work	Male	Fe- male	Under 16 Years	Fe- male	Regular Sunday Work
Kittson	Hallock	9	25	21	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marshall	Warren	15	41	39	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Norman	Ada	17	118	117	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Polk	Crookston	38	770	738	26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Polk	E. Grand Forks	12	311	304	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red Lake	Red Lake Falls	7	46	44	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red Lake	St. Hilaire	5	211	208	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Red Lake	Thief Riv. Falls	10	234	279	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	.....	113	1,806	1,760	39	369	121	2,074	1,986	66	378	107	.....	.....	.....	.....	.....	.....	.....	.....	.....

TABLE III.—SUMMARY OF INSPECTIONS BY INDUSTRIES.
Country District Inspected by L. Levy.

INDUSTRIES	1905										1906									
	No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
	Total Number	Adults	Under 16 Years	Male	Fe- male	Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons	No. of Inspections	Total Number	Adults	Under 16 Years	Male	Fe- male	Regular Night Work	Regular Sunday Work	Number of Persons	Number of Persons	No. of Inspections
Agricultural machinery and im- plements.....	25	25					1	1		1	43	42	1							
Blacksmithing and wheelwright- ing.....	6	6								1	5	5								
Bottling.....	8	8								2	7	7								
Bread and other bakery prod- ucts.....	18	18								7	18	16	2	1						
Brewing.....	17	17								2	39	39								
Brick and tile.....	22	22								3	109	97								
Cement stones and cement side- walks.....	35	35																		
Cigars.....	26	26								6	34	31								
Crackers and biscuits.....	26	26									27	12	11	1	3					
Creamery products.....	6	6								5	8	8								
Electric lighting.....	5	5								3	8	8								
Electric light and water.....	21	21								3	23	22	1							
Flouring and grist mill products	63	63					3	1		8	73	73								

TABLE III.—Continued.

INDUSTRIES	1905										1906									
	No. of Inspections				Wage Earners				Number of Persons		No. of Inspections				Wage Earners				Number of Persons	
	Total Number				Adults				Under 16 years		Total Number				Adults				Under 16 years	
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
Foundry and machine shop products	4	22	22	32	22	32	22	32	4	28	28	23	23	23	26	26	2	2	2	2
Grain cleaning and storing	20	32	32	12	32	12	32	12	5	42	42	23	23	23	9	9	33	33	5	5
Laundry work	5	39	39	3	39	3	39	3	1	5	5	5	5	5	5	5	5	5	5	5
Leather tanning	1	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1
Lumber, planing mill products, Incl. sash, door and blinds	6	118	116	2	116	2	116	2	2	2	2	2	2	2	252	252	1	1	1	1
Lumber and timber	5	1,136	1,125	11	1,125	11	1,125	11	11	11	11	45	45	44	1,000	998	1	1	1	1
Monuments and tombstones	2	16	16	10	16	10	16	10	2	15	15	75	75	59	44	59	14	2	2	2
Printing	13	63	52	10	52	10	52	10	15	75	75	75	75	75	75	75	14	2	2	2
Railroad work, shop and round-house	2	57	57	10	57	10	57	10	20	15	3	75	75	75	75	75	24	24	24	58
Railroad work, track repairing and switch blocking	14	63	63	3	63	3	63	3	1	1	13	100	100	100	100	100	1	1	1	1
Telegraph, telephone and messenger companies	1	5	5	2	5	2	5	2	2	2	2	23	23	23	23	23	23	23	23	1
Flour goods	1	5	5	2	5	2	5	2	2	2	2	23	23	23	23	23	23	23	23	1
Plumbing and gas and steam fitting	1	12	12	12	12	12	12	12	1	12	12	12	12	12	12	12	12	12	12	12
Total	118	1,806	1,750	88	1,750	88	1,750	88	369	88	121	2,074	1,985	66	20	3	378	107	107	107

TABLE IV.—Number of Establishments and Number of Wage Earners in Specified Industries Grouped According to Daily and Weekly Working Time.
Country District Inspected by L. Levy.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Agricultural machinery and implements	1	25	10	60	1	43	10	60
Blacksmithing and wheel-wrighting	1	6	10	60	1	5	10	60
Bottling	2	8	10	60	2	7	10	60
Bread and other bakery products	7	18	10	60	3	8	9	54
					3	8	10	60
					1	2	11	66
Brewing	2	17	10	60	2	39	10	60
Brick and tile	2	22	10	60	3	109	10	60
Cement stones and cement sidewalks	1	35	10	60				
Cigars	6	26	8	48	6	34	8	48
Crackers and biscuits	1	Not in operation			1	27	10	60
Creamery products	5	6	10	60	2	3	10	60
					2	3	12	72
					1	2	13	78
Electric lighting	2	5	12	72	1	5	8	56
					1	3	12	72
Electric light and water	2	5	12	72	1	3	11	72
	1	16	10-12	60-72	1	2	12	72
					1	18	10-12	60-72
Flouring and grist mill products	4	37	10	60	4	17	10	60
	1	12	11	66	2	39	10-12	60-72
	2	14	10-12	60-72	2	17	12	72
Foundry and machine shop products	4	22	10	60	4	28	10	60
Grain cleaning and storing	20	32	10	60	21	23	10	60
Laundry work	5	39	10	60	5	42	10	60
Leather tanning	1	3	10	60	1	5	10	60
Lumber—planing mill products, inc. sash, door and blinds	6	118	10	60	8	252	10	60
Lumber and timber	5	1,136	10	60	5	1,000	10	60
Monuments and tombstones	2	16	10	60	2	45	10	60
Printing	1	13	8	48	3	39	8	48
	12	50	9	54	9	27	9	54
					3	9	10	60
Railroad work—shop and roundhouse	2	57	10-12	60-72	3	75	10	60
Railroad work—track repairing and switch blocking	14	63	10	60	13	100	10	60
Telegraph, telephone and messenger companies	1	5	10	60				
Fibre goods					2	23	10	60
Plumbing					1	12	10	60
Total	113	1,806			121	2,074		

TABLE V.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I of Country District Inspected by L. Levy.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	.....	.....	Less than 48	.....	.....
8	39	78	48	39	78
9	50	35	54	50	40
10	1,608	1,872	60	1,608	1,872
11	12	5	66	12	2
12	10	27	72	10	30
10 and 12	87	57	60 to 72	87	57
Total.....	1,806	2,074	Total.....	1,806	2,074

FACTORY INSPECTION IN THE RURAL DISTRICT BY
AUG. HAGBERG, INSPECTOR.

LETTER OF TRANSMITTAL.

Mr. W. H. Williams, Commissioner of Labor.

Dear Sir: I herewith submit my report on factory inspection in the rural district, embracing the northern portion of the state, for the years 1905 and 1906.

The report shows inspections in twenty cities and towns in 1905 and in 19 cities and towns in 1906.

I would call attention to the general readiness of employers of labor to adopt any suggestions offered for the better protection of their employes and their appreciation of the benefits of factory inspection. However, I would recommend that inspections of factories with high speed and dangerous machinery should be made oftener than once a year.

I am, yours respectfully,
(Sig.) AUG. HAGBERG, Inspector.

TABLE I.—FACTORY INSPECTION.
Country District Inspected by A. Hagberg.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	Wage Earners					No. of Inspections	Regular Night Work			Number of Persons	Wage Earners					Regular Sunday Work	Regular Night Work			Number of Persons
	Total Number	Adults	Male	Fe- male	Under 16 Years		Male	Fe- male	Under 16 Years		Total Number	Adults	Male	Fe- male	Under 16 Years		Male	Fe- male	Under 16 Years	
Altken—Altken County.																				
Bread and other bakery products	1	2	2							1	2	2								
Electric lighting	1	3	3							1	3	3								
Laundry work	1	7	3		4					1	7	3								
Lumber and timber	4	99	99							4	79	79								
Printing	2	5	5							2	5	5								
Railroad work—track repairing																				
Railroad work—track repairing	1	6	6							1	6	6								
and switch blocking																				
Total	10	122	118	4			2			9	94	94				2				1
Bemidji—Beltrami County.																				
Bread and other bakery products	1	4	4							1	4	4								
Electric lighting	1	3	2	1						1	3	3								
Electric lighting	1	7	7				2			1	7	7								
Foundry and machine shop																				
products	1	3	3							1	3	3								
Laundry work	1	7	2	5						1	7	2	5							
Lumber—planing mill products																				
Inc. sash, doors and blinds	1	35	35							2	62	61								
Lumber and timber	2	386	386				78			2	380	380								
Printing	3	12	12							1	15	11	4							
Railroad work—track repairing																				
Railroad work—track repairing	3	13	13							3	13	13								
and switch blocking																				
Total	14	470	464	6			82			12	474	464	10			80				2

Black Duck—Beltrami County.															
Electric lighting and telephone.	1	5	4	1	2	2	1	5	4	1	1	1	2	2	2
Laundry work	1	3	3	3	3	3	1	3	3	3	3	3	3	3	3
Printing	2	4	4	4	4	4	2	4	4	4	4	4	4	4	4
Total	4	12	8	4	2	2	4	12	8	4	4	4	4	4	4
Carlton—Carlton County.															
Flouring and grist mill products	1	3	3	3	3	3	1	3	3	3	3	3	3	3	3
Railroad work—shop work and roundhouse	1	3	3	3	2	3	1	3	3	3	3	3	3	3	3
Railroad work—track repairing and switch blocking	3	10	10	10	10	10	3	14	14	14	14	14	14	14	14
Total	5	16	16	16	2	3	5	20	20	20	20	20	20	20	20
Cloquet—Carlton County.															
Boxes—wood	1	80	70	10	3	3	1	80	80	80	80	80	80	80	80
Electric lighting	1	6	6	6	6	6	1	6	6	6	6	6	6	6	6
Flouring and grist mill products	1	3	3	3	3	3	1	3	3	3	3	3	3	3	3
Foundry and machine shop products	2	19	19	19	19	19	2	19	19	19	19	19	19	19	19
Lumber—planing mill products, inc. sash, door and blinds	3	324	324	324	4	2	3	321	321	321	321	321	321	321	321
Lumber and timber	5	1,315	1,315	1,315	293	5	5	1,083	1,083	1,083	1,083	1,083	1,083	1,083	1,083
Paper	1	180	180	180	70	70	1	180	180	180	180	180	180	180	180
Railroad work—track repairing and switch blocking	3	10	10	10	10	10	2	47	47	47	47	47	47	47	47
Printing	3	10	10	10	10	10	2	6	6	6	6	6	6	6	6
Total	17	1,937	1,927	10	470	10	18	1,745	1,745	1,745	1,745	1,745	1,745	1,745	1,745
Scanlon—Carlton County.															
Lumber—planing mill products, inc. sash, door and blinds	1	50	50	50	50	50	1	40	40	40	40	40	40	40	40
Lumber and timber	1	650	650	650	126	1	1	475	475	475	475	475	475	475	475
Railroad work—shop and roundhouse	1	12	12	12	12	12	1	12	12	12	12	12	12	12	12
Railroad work—track repairing and switch blocking	1	6	6	6	6	6	1	6	6	6	6	6	6	6	6
Total	4	718	718	126	126	1	4	533	533	533	533	533	533	533	533

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906									
	No. of Inspections	Wage Earners				Regular Night Work	Number of Persons	Regular Sunday Work	No. of Inspections	Wage Earners				Regular Night Work	Number of Persons	Regular Sunday Work	Number of Persons			
		Total Number	Adults		Under 16 Years					Total Number	Adults		Under 16 Years							
			Male	Fe- male							Male	Fe- male								
Cass Lake—Cass County.																				
Bread and other bakery products	1	2	2				1	1	1	2	2			1	1	1				
Electric lighting and water wks.	1	2	2				1	1	1	2	2			1	1	1				
Laundry work	1	4	2	2			1	1	1	4	2	2		1	1	1				
Lumber—planing mill products.	1	46	45	1			46	1	1	45	45			46						
Inc. sash, door and blinds.	1	111	111				133	1	1	133	131			46						
Lumber and timber	2	4	4				4	2	2	4	4									
Printing	2	18	18				7	2	2	18	18			7	5	5				
Railroad work—shops and round-houses	2	5	5					1	1	5	5									
Railroad work—track repairing and switch blocking.	1	192	189	2	1		54	2	10	213	209	2	2	54	6	6				
Total	10	192	189	2	1		54	2	10	213	209	2	2	54	6	6				
Deer River—Cass County.																				
Foundry and machine shop products	1	10	10					1	1	10	10									
Lumber and timber.	2	105	106					2	2	102	102									
Printing	1	2	2					1	1	2	2									
Railroad work—track repairing and switch blocking.	2	14	14					2	2	14	14									
Total	6	131	131					6	6	128	128									
Akeley—Hubbard County.																				
Lumber—planing mill products, inc. sash, door and blinds.	1	45	45				13	1	1	45	45			14	14	14				
Lumber and timber.	1	383	383				190	1	1	380	380			180	180	180				

	2	4	4						2	4			
Printing	1	3	3						1	3			
Railroad work—track repairing and switch blocking.....	6	438	438					208	6	432	432		194
Total.....													2
Park Rapids—Hubbard County.													
Bottling	1	2	2						1	2	2		
Electric lighting	1	4						1	1	4			1
Flouring and grist mill products Lumber—planing mill products. Inc. sash, door and blinds..... Lumber and timber..... Railroad work—track repairing and switch blocking..... Printing	2 1 7	22 84 84 7	22 84 84 7						2 1 2	22 86 86 6	22 86 86 6		
Total.....	6	119	119					1	9	130	127		1
Grand Rapids—Iasca County.													
Bread and other bakery products Cigars	1 1	3 6	2 5						1 2	3 7	2 7		
Electric lighting and water wks. Laundry work	1 1	3 5	2 2					2	1 1	2 5	2 2		1
Lumber—planing mill products, inc. sash, door and blinds..... Paper	1 2	4 100	4 100						1 1	10 100	10 100		26
Printing	2	5	5					25	3	6	6		
Railroad work—track repairing and switch blocking.....	2	6	6						1	6	6		
Total.....	10	131	127					27	11	138	136		26
Fosston—Polk County.													
Electric lighting	1	3	3						1	3	3		2
Flouring and grist mill products Grain cleaning and storing..... Lumber—planing mill products. Inc. sash, door and blinds..... Printing	1 1 1 1	3 8 1 2	3 8 1 2					2 4	1 1	3 8	3 8		4
Railroad work—track repairing and switch blocking..... Woolen goods	1 1	5 45	5 30						1 1	6 45	6 30		5
Total.....	7	70	65					6	6	68	64		6

TABLE I.—Continued.

TOWN AND COUNTY INDUSTRIES	1905										1906												
	No. of Inspections	Wage Earners				Regular Night Work Number of Persons	Regular Sunday Work Number of Persons	No. of Inspections	Wage Earners				Regular Night Work Number of Persons	Regular Sunday Work Number of Persons									
		Total Number	adults		Under 16 years				Total Number	Adults		Under 16 Years											
			Male	Fe- male						Male	Fe- male				Male	Fe- male							
Chisholm—St. Louis County.																							
Lumber and timber	1	70																					
Total.....	1	70																					
Ely—St. Louis County.																							
Bread and other bakery products	1	3																					
Cigars	1	2																					
Clothing—men's, custom work	1	6																					
and repairing	1	4																					
Electric lighting and water wks.	1	3																					
Printing	1	9																					
Railroad work—track repairing	1	9																					
and switch blocking.....	1	9																					
Total.....	6	27																					
Eveleth—St. Louis County.																							
Bread and other bakery products	2	8																					
Electric lighting	1	7																					
Printing	2	6																					
Railroad work—track repairing	2	63																					
and switch blocking.....	1	14																					
Department store	1	14																					
Cigars	1	14																					
Total.....	8	98																					

Hibbing—St. Louis County.

Bread and other bakery products	4	12	9	3	.....	2	8	5	3	.....	.....	.....
Cigars	1	14	10	4	.....	1	13	5	4	.....	.....	.....
Electric lighting and water wks.	1	7	7	.....	3	1	16	5	.....	.....	2	2
Laundry work	1	12	5	9	.....	1	13	6	8	.....	.....	.....
Printing	2	7	7	.....	.....	2	7	7	.....	.....	.....	.....
Railroad work—track repairing	2	10	10	.....	.....	2	13	13	.....	.....	.....	.....
and switch blocking	.....	.....	.....	.....	.....	3	32	32	.....	.....	.....	.....
Retail mercantile establishments	.....	.....	.....	.....	.....	13	91	76	15	.....	2	2
Total	12	62	46	16	4	3	.....	.....	.....	.....	.....	.....

Tower and Tower Junction—
St. Louis County.

Bread and other bakery products	1	2	2	.....	.....	1	2	2	.....	.....	.....	.....
Brewing	1	4	4	.....	.....	1	8	8	.....	.....	.....	.....
Cigars	1	3	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Electric lighting	1	2	2	.....	2	1	2	2	.....	.....	2	2
Lumber—planing mill products,	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
inc. sash, door and blinds	1	14	14	.....	.....	1	20	20	.....	.....	1	1
Lumber and timber	1	230	230	.....	115	1	332	330	2	.....	125	10
Printing	1	2	2	.....	.....	1	2	2	.....	.....	.....	.....
Railroad work—shop and round-	1	7	7	.....	2	.....	.....	.....	.....	.....	.....	.....
house	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Railroad work—track repairing	2	19	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
and switch blocking	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	10	283	283	.....	119	6	366	364	2	.....	128	13

Two Harbors—St. Louis
County.

Bread and other bakery products	1	3	3	.....	.....	2	5	5	.....	.....	.....	.....
Docks—coal	1	96	96	.....	.....	1	48	48	.....	.....	.....	.....
Docks—ore	1	493	493	.....	230	1	262	262	.....	.....	130	50
Electric lighting	1	4	4	.....	3	.....	.....	.....	.....	.....	.....	.....
Laundry work	1	7	1	6	.....	1	9	2	7	.....	.....	.....
Printing	1	2	2	.....	.....	1	4	4	.....	.....	.....	.....
Railroad work—shop work and	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
roundhouse	1	421	421	.....	38	2	413	413	.....	.....	25	.....
Railroad work—track repairing	1	33	33	.....	.....	1	40	40	.....	.....	.....	.....
and switch blocking	.....	.....	.....	.....	.....	2	32	24	8	.....	.....	.....
Retail mercantile establishments	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	8	1,059	1,053	6	271	11	813	798	15	.....	155	50

TABLE II. SUMMARY OF INSPECTIONS BY TOWNS.
Country District Inspected by A. Hagberg.

COUNTY	TOWN	1905										1906									
		No. of Inspections					Wage Earners					No. of Inspections					Wage Earners				
		Total Number					Adults					Total Number					Adults				
		Male	Fe- male	Under 16 Years	Fe- male	Regular Night Work	Male	Fe- male	Under 16 Years	Fe- male	Regular Sunday Work	Male	Fe- male	Under 16 Years	Fe- male	Regular Night Work	Male	Fe- male	Under 16 Years	Fe- male	Regular Sunday Work
Atkin...	Atkin...	122	4	118	4	2	118	4	4	4	1	94	94	10	10	2	94	94	10	10	1
Beltrami...	Beltrami...	470	6	464	6	82	464	6	12	12	12	474	464	8	8	80	474	464	8	8	2
Carlton...	Carlton...	12	4	8	4	2	8	4	5	5	2	12	8	4	4	2	12	8	4	4	2
Carlton...	Carlton...	16	16	16	16	470	16	16	10	10	10	20	20	20	20	375	20	20	20	20	10
Carlton...	Carlton...	1,937	1,927	1,927	10	54	1,927	10	13	13	13	1,746	1,746	1,746	1,746	54	1,746	1,746	1,746	1,746	6
Cass...	Cass...	718	2	716	2	123	716	2	10	10	10	533	533	2	2	194	533	533	2	2	6
Hubbard...	Hubbard...	131	131	131	1	203	131	1	1	1	1	128	128	1	1	194	128	128	1	1	2
Hubbard...	Hubbard...	119	3	116	3	27	116	3	9	9	9	432	432	3	3	28	432	432	3	3	2
Itasca...	Itasca...	131	15	116	15	6	116	15	2	2	2	139	139	15	15	6	139	139	15	15	2
Folk...	Folk...	70	70	70	70	2	70	70	1	1	1	69	69	1	1	6	69	69	1	1	2
St. Louis...	St. Louis...	70	70	70	70	2	70	70	1	1	1	29	29	1	1	2	29	29	1	1	2
St. Louis...	St. Louis...	27	27	27	27	2	27	27	1	1	1	97	97	1	1	2	97	97	1	1	2
St. Louis...	St. Louis...	8	8	8	8	4	8	8	13	13	13	91	91	15	15	2	91	91	15	15	2
St. Louis...	St. Louis...	62	46	16	16	4	46	16	13	13	13	76	76	15	15	2	76	76	15	15	2
St. Louis...	St. Louis...	283	283	283	283	119	283	283	6	6	6	368	368	2	2	128	368	368	2	2	13
St. Louis...	St. Louis...	1,069	1,069	1,069	1,069	271	1,069	1,069	31	31	31	813	813	15	15	155	813	813	15	15	50
St. Louis...	St. Louis...	379	379	379	379	10	379	379	14	14	14	456	456	27	27	110	456	456	27	27	21
St. Louis...	St. Louis...	330	330	330	330	141	330	330	3	3	3	467	467	2	2	112	467	467	2	2	9
St. Louis...	St. Louis...	159	6,711	6,617	80	1,523	6,617	80	14	14	14	6,308	6,308	105	105	1,253	6,308	6,196	105	7	129
Total...	Total...	159	6,711	6,617	80	1,523	6,617	80	14	14	14	6,308	6,308	105	105	1,253	6,308	6,196	105	7	129

TABLE IV.—Number of Establishments and Number of Wage Earners in Specified Industries Grouped According to Daily and Weekly Working Time.
Country District Inspected by A. Hagberg.

Industries	1905				1906			
	Number of Establishments	Number of Wage Earners	Working Hours		Number of Establishments	Number of Wage Earners	Working Hours	
			Each Day	Each Week			Each Day	Each Week
Bread and other bakery products	2 4 6 2	6 12 16 8	8 9 10 12	48 54 60 72	2 4 6 1	8 12 21 4	8 9 10 12	48 54 60 72
Bottling	1	4	10	60	1	8	10	60
Brewing	1	80	10	60	1	80	10	60
Boxes, wood	5	25	8	48	6	29	8	48
Cigars	1	2	9	54				
Clothing, men's, custom work and repairing.....	1	6	10	60	1	7	9	54
Docks, coal	1	96	10	60	1	48	10	60
Docks, ore	1	493	10	60	1	262	10	60
Electric lighting	9	36	12	72	7	31	12	72
Electric light and water.....	1 4	4 20	10 12	60 72	1 4	2 13	13 12	78 72
Flouring and grist mill products	2 1	6 4	10 11	60 66	3 1	10 8	10 12	60 72
Foundry and machine shop products	5	54	10	60	5	68	10	60
Grain cleaning and storing...	1	1	12	72				
Laundry work	1 5 2	12 38 10	9 10 11	54 60 66	2 5	22 43	9 10	54 60
Lumber, planing mill products, incl. sash, door and blinds	11 3	273 354	10 11	60 66	14 1	591 45	10 11	60 66
Lumber and timber.....	1 21	30 3,596	9 10	54 60	21	3,354	10	60
Paper	1 2	383 280	11 10	66 60	1 1	380 100	11 10	66 60
Printing	6 17 1	13 52 2	8 9 10	48 54 60	8 14 5	22 50 16	8 9 10	48 54 60
Railroad work, shop and roundhouse	7	480	10	60	7	471	10	60
Railroad work, track repairing and switch blocking....	2 28	29 221	9 10	54 60				
Woolen goods	1	45	10	60	1	45	10	60
Department store	1	14	9	54	2	19	10	60
					2	16	10	63
					2	26	11	68
					1	20	11	69
Total	159	6,711			160	6,308		

SHARPS' CO.

ORDERS ISSUED

TABLE V.—Daily and Weekly Working Time in Hours of All Wage Earners of Specified Industries and Occupations Enumerated in Table I. of Country District Inspected by A. Hagberg.

Working Hours Each Day	1905	1906	Working Hours Each Week	1905	1906
	Number of Wage Earners	Number of Wage Earners		Number of Wage Earners	Number of Wage Earners
Less than 8	.....	.....	Less than 48	.....	.....
8	44	59	48	44	59
9	151	91	54	151	91
10	5,693	5,441	60	5,693	5,441
11	751	479	66	751	479
12	72	56	72	72	56
13	.....	2	63	.....	2
10 and 12	.....	180	68	.....	180
.....	.....	.....	69	.....	.....
.....	.....	.....	78	.....	.....
.....	.....	.....	60 to 72	.....	.....
Total.....	6,711	6,306	Total.....	6,711	6,306

ORDERS ISSUED

ORDERS ISSUED, 1905

Orders Issued by Factory Inspectors in the City of St. Paul During 1905.

Machine Shop and Foundry:

Box up pulley on countershaft for circular saw in pattern shop. Take up lost motion of emery wheel arbor in machine shop.—Complied.

Confectionery Factory:

Provide one additional water closet; have water closet on third floor boarded up to ceiling; designate closets.—Complied.

Confectionery Factory:

Provide guard for bevel gear on marshmallow beater.—Complied.

Electric Light and Heating Plant—Hotel Building:

Provide better ventilation for boiler and engine room.—Complied.

Wooden Boxes Factory:

Remove or cover exposed set screws on shaft in basement, west side of building.—Complied.

Electric Lighting Plant—Street Lighting:

Provide guard rail around Corliss engine.—Complied.

Fur Garment Factory:

Cover or box up exposed end of sewing machine shaft.—Complied.

Garment Factory:

Cover or box up exposed end of sewing machine shaft.—Complied.

Shoe Factory:

Cover or remove two exposed collar set screws on second floor.—Complied.

Mattress and Bedding Factory:

Put water closet in proper repair at once; provide one additional water closet; provide guard rail for hand elevator.—Complied.

Steam Laundry:

Provide screen for bottom of stairway.—Complied.

Soap Factory:

Remove or cover exposed set screws on shafting.—Complied.

Foundry:

Cover or remove set screws on shafting.—Complied.

Steam Laundry:

Cover or remove all exposed set screws on shafting.—Complied.

Railroad Repair Shop:

Provide guard rail around openings in floor on each end of boiler room; remove or cover set key in end of shaft of flue welding machine.—Complied.

- Shade Cloth Factory:**
Cover or remove set screws in line shaft of work room.—Complied.
- Sash and Door Factory:**
Provide blower system for factory.—Factory shut down, order not carried out.
- Railroad Repair Shop:**
Cover or remove all exposed set screws on shafting; cover or remove exposed end of set key of fly wheel shaft on compound engine; provide guard rail around flywheel of air compressor engine.—Complied.
- Bakery:**
Cover all exposed set screws on shafting and meat chopper; repair automatic gate of elevator, put water closet on third floor in proper repair.—Complied.
- Foundry:**
Cover bevel gear of drill press.—Complied.
- Brewery:**
Provide guard rail around head of stairs in cooling room, keep proper record of all child labor.—Complied.
- Steam Laundry:**
Provide guard around sprocket wheel of mangle; cover or remove all exposed set screws.—Complied.
- Planing Mill and Box Factory:**
Provide guard for gearing of polishing machine; cover or remove all exposed set screws.—Complied.
- Sheetmetal and Tinshop:**
Cover or remove all exposed set screws.—Complied.
- Show Case Factory:**
Cover or remove all exposed set screws.—Complied.
- Fur Dressing Factory:**
Cover or remove all exposed set screws.—Complied.
- Retail Gents' Furnishing and Clothing Store:**
Properly enclose water closet in basement; provide key for same, also provide light and keep water closet in clean condition.—Complied.
- Electric Light and Heating Plant—Office Building:**
Cover or remove set key in flywheels of both engines; box in lower part of drive belt of engine No. 2.—Complied.
- Garment Factory:**
Cover or remove all exposed set screws on shafting.—Complied.
- Electro and Stereotyping Establishment:**
Keep proper record of child labor.—Complied.
- Furniture Factory:**
Cover or remove all exposed set screws on shafting.—Complied.
- Musical Instrument Factory:**
Cover or remove all exposed set screws on shafting.—Complied.
- Sash and Door Factory and Box Factory:**
Provide guard for gearing of boring machine, cover or remove all exposed set screws on shafting.—Complied.

Bakery.

Give bakery general cleaning up, whitewash same; screen water closet to ceiling.—Complied.

Printing establishment:

Cover or remove all exposed set screws on shafting; keep proper record of child labor.

Printing and Bookbinding Establishment:

Cover or remove all exposed set screws on shafting.—Complied.

Electric Light and Power Plant:

Provide water closet for employees.—Order extended until sewer connection can be made. Later complied.

Electric Light, Heat and Power Plant:

Provide guard around flywheel of Ball engine.—Complied.

Electric Light, Heat and Power Plant—Hotel Building:

Provide guard rails around flywheels of both engines.—Complied.

Steam Laundry:

Cover or remove all exposed set screws.—Complied.

Agricultural Implement Factory:

Provide guard rail around flywheel of engine.—Complied.

Copper and Brass Works:

Box in lower part of band saw.—Complied.

Cabinet Shop:

Box in lower part of band saw.—Complied.

Agricultural Implement Factory:

Provide guard rails around flywheels of engine.—Complied.

Railroad Companies:

13 orders to replace and repair all missing and bad foot blocks in switches, frogs and guard rails in their switch yards in the city of St. Paul.—All orders have been complied with.

Bakery:

Whitewash interior of bakery.—Complied.

Bakery:

Give bakery general cleaning out.—Complied.

Printing Establishment:

Keep proper record of child labor; cover or remove all exposed set screws on shafting.—Complied.

Wholesale Grocery House:

Provide one additional outside fire escape.—Complied

Sash and Door Factory:

Cover or remove all exposed set screws on shafting.—Complied.

Shoe Factory:

Cover or remove all exposed set screws on shafting.—Complied.

Confectionery Factory:

Cover or remove all exposed set screws on shafting.—Complied.

Railroad Repair Shop:

Cover or remove all exposed set screws on shafting.—Complied.

Engine Works and Machine Shop:

Cover or remove all exposed set screws on shafting in machine shop and engine room.—Complied.

Printing Establishment:

Cover or remove all exposed set screws on shafting.—Complied.

Printing Establishment:

Cover or remove all exposed set screws on shafting.—Complied.

Foundry and Machine Shop:

Provide guard rails around flywheels of both engines; cover or remove all exposed set screws on shafting.—Complied.

Grass Matting Factory:

Box in lower part of band saw.—Complied.

Electric Light, Heat and Power Plant. Hotel Building:

Provide guard rail around flywheel of Ideal engine.—Complied.

Newspaper Printing Establishment:

Keep proper record of child labor.—Complied.

Electric Light and Heating Plant. Office Building:

Provide better ventilation for engine room.—Order canceled.

Garment Factory:

Provide addition water closet separate from the one now in use; designate new closet for female employees.—Complied.

Printing Establishment:

Provide balconies for fire escape.—Complied.

Department Store:

Provide guard rails around flywheels of both engines.—Complied.

Refrigerator Factory:

Provide guard rail around flywheel of engine; provide guard around bevel gear of drill press.—Complied.

Printing Establishment:

Provide water closet for employees.—Order canceled, other satisfactory arrangements made.

Stamp Works:

Guard bevel gear of drill press, keep record of child labor.—Complied.

Machine Shop:

Guard bevel gear of drill press.—Complied.

Woodworking Establishment:

Box in lower part of band saw.—Complied.

Trunk Factory:

Box in lower part of band saw.—Complied.

Boat Shop:

Box in lower part of band saw.—Complied.

Brick Yard:

Provide guard rail around flywheel of engine; hand rails for stairway, rail around landing of stairway in engine room.—Complied.

Garment Factory:

Repair window leading to fire escape.—Complied.

Cabinet Shop:

Box in lower part of band saw.—Complied.

Wire and Fence Works:

Guard bevel gear of drill press; cover or remove all exposed set screws on shafting.—Complied.

Tinsmithing Shop:

Provide guard rail around landing of stairway leading to basement, permit no child under 16 years to operate punching machine.—Complied.

Brewery:

Keep proper record of child labor; cover or remove all exposed set screws on shafting.—Complied.

Okum Factory:

Provide guard rail around flywheel in engine room.—Complied.

Printing Establishment:

Keep proper record of child labor.—Complied.

Steam Laundry:

Keep proper record of child labor.—Complied.

Soap Factory:

Keep proper record of child labor in future.—Complied.

Wholesale Stationery House:

Keep proper record of child labor in future.—Complied.

Reed and Rattan Factory:

Keep proper record of child labor in future.—Complied.

Orders Issued by Factory Inspectors in the City of Minneapolis During 1905.**Picture Frame Factory:**

Properly enclose belting on chopping machine.—Complied.

Trunk Factory:

Provide guard for band saw; provide guard for belt of band saw.—Complied.

Confectionery Factory:

Provide fire escape on outside of building.—Complied.

Confectionery Factory:

Provide proper guards for all belts.—Complied.

Reed and Rattan Factory:

Provide proper guards on all belting exposed.—Complied.

Newspaper Printing Establishment:

Provide fire escape on outside of building.—Order canceled; made other provisions.

Wood Boxes Factory:

Provide necessary guards around belting on matcher, moulder, planers, guard roller chain on re-saw on first floor. Provide guard on belting on squeezer and re-saw on 2nd floor.—Complied.

Steam Laundry:

Provide proper guards around belting on main floor; also belting and shafting in basement.—Complied.

Cigar Factory:

Provide external fire escape for factory building.—Complied.

Bookbinding Establishment:

Put water closet for employes in sanitary condition.—Complied.

Steam Laundry:

Put proper guard around exposed belts.—Complied.

Tailor Shop:

Put water closet for employes in sanitary condition.—Complied.

Trunk Factory:

Provide proper and sufficient fire escape on building.—Complied.

Knitting Works:

Provide external fire escape.—Complied.

Moulding Factory:

Provide guard for band saw; provide guards for exposed belts where necessary.—Complied.

Carriage Factory:

Provide external fire escape.—Complied.

Department Store:

Provide sufficient air fans and other means of ventilation to properly ventilate millinery work room.—Order cancelled, other means of ventilation provided.

Flour Mill:

Remove or cover all exposed set screws; also keep elevator openings closed or guarded.—Complied.

Flour Mill:

Cover or countersink all exposed set screws throughout mill; clean out all holes in both basements of mill.—Complied.

Flour Mill:

Cover or countersink all exposed set screws throughout mill; put guard in front of conveyor belt on 5th floor.—Complied.

Flour Mill:

Remove or cover set screws on 2nd floor; also place eight extra lights in basement; provide toilet bowls for 2nd and 4th floors, place two fans in boiler room.—Complied.

Flour Mill:

Remove or cover all set screws on 2nd floor; also box upright shafting 4th floor.—Complied.

Flour Mill:

Remove or countersink three set screws on top floor; also cover cog pulley on same floor, cover 14 set screws on 5th floor, also drive pulley, same floor.—Complied.

Flour Mill:

Put hand rail on basement stairway, remove all projecting set screws on shafting throughout mill.—Complied.

Flour Mill:

Put in water closet on 2nd floor, also on 4th floor.—Order cancelled.

Food Products Factory:

Put floor of factory in good sanitary condition.—Complied.

Tents and Awning Shop:

Provide light for stairway.—Complied.

Woolen Mill:

Properly guard belting on Garnett machine.—Complied.

Wooden Boxes Factory:

Put proper guard on band saw, second floor.—Complied.

Cabinet Factory:

Provide proper guard on all belting, 2nd, 3rd and 4th floor.—Complied.

Bakery:

Whitewash walls and ceiling of bakery; keep record of child labor.—Complied.

Grain Elevator:

Provide outside ladder on elevator.—Complied.

Printing Establishment:

Properly cover two large dynamos in press room.—Complied.

Artificial Limb Factory:

Put guard on band saw on 3rd floor.

Coffin Factory:

Provide guard for band saw in carving room, put up gates on elevator opening in basement, enclose closet in basement.—Complied.

Bakery:

Whitewash bakery.—Complied.

Malt Extract Brewery:

Put guard around flywheel of engine.—Complied.

Grain Elevator:

Put railing around large flywheel of engine.—Complied.

Type Foundry:

Provide automatic gates on elevator openings.—Complied.

Wholesale Implement House:

Provide proper guards for elevator openings in basement, clean water closet on second floor.—Complied.

Dry Goods Store:

Provide seats for female employees.—Complied.

Bag Factory:

Countersink or cover all set screws on shafting throughout factory; see that all girls are provided with caps and that they have their hair properly done up.—Complied.

Railroad Companies:

Forty-five orders to replace and repair all missing and bad foot blocks in switches, frogs and guard rails in switch yards located in the city of Minneapolis, and to raise all low blocks to the proper height, so as to protect the feet of employes from being caught between rails.—Complied.

Grain Elevator:

Properly guard flywheel in engine room with iron railing, also put railing around crank shaft.—Complied.

Planing Mill:

Remove or cover all exposed set screws on shafting.—Complied.

Engine Works:

Remove or cover all exposed set screws on main line shafting.—Complied.

Machine Shop:

Cover or remove all exposed set screws on shafting.—Complied.

Sash and Door Factory:

Enclose stairs in factory, put guard around flywheel in engine room, box up belting, case up belts running through floor to the height of 3 to 4 feet, put guard on band saw, remove all exposed set screws.—Complied.

Upholstered Furniture Factory:

Provide outside fire escape.—Complied.

Moulding and Picture Frame Factory:

Box in motor on top floor, provide fire escape.—Complied.

Tank Factory:

Remove door over jointer saw at once.—Complied.

Electric Machinery Shop:

Put up railing around platform in rear of store, and stairs leading to basement.—Complied.

Newspaper Printing Establishment:

Remove exposed set screws; put railing around dynamo in basement, put water closet in composing room in good sanitary condition.—Complied.

Dry Goods Store:

Clean up water closet on second floor, keep on file child labor certificates.—Complied.

Structural Iron Works:

Remove or cover all exposed set screws throughout plant.—Complied.

Furniture Factory:

Remove or cover all exposed set screws; box up exposed belting, keep on file child permit.—Complied.

Food Preparation Factory:

Provide suitable railing around flywheel of engine and dynamo.—Complied.

Wholesale House:

Put urinal in Leaded Glass Department in sanitary condition.—Complied.

Garment Factory:

Put electric push buttons in machine tables in good working order.—Complied.

Newspaper Printing Establishment:

Provide at once exhaust fans in composing room so as to take out all smoke and gas fumes arising from stoves and molten metal.—

Wholesale Implement House:

Remove all obstructions from windows leading to fire escape, have windows in working order, remove nails from window and provide suitable catches for same.—Complied.

Pattern Makers:

Put water closet in sanitary condition.—Complied.

Grain Elevator:

Put guard around flywheel of gasoline engine.—Complied.

Linseed Oil Works:

Properly guard small dynamo, box up rope drive in elevator, rail in front wheel on small engine and drive wheel; clean stairs from engine room to basement, properly guard shiftings on rollers.—Complied.

Railroad Company:

Move lamp shanty to clear track on both sides; place telldales west of bridge.—Complied.

Street Car Company:

Raise trolley wire over railroad track so as to clear trainmen on top of railroad cars.—Complied.

Railroad Repair Shop:

Put guard rail around flywheel of engine in machine shop boiler house.—Complied.

Electric Light and Heating Plant—Building:

Provide light in stairway leading to basement.—Complied.

Dressmaking Establishment:

Put storm window leading to roof of adjoining building on hinges so as to give easy access in case of fire.—Complied.

Grain Elevator:

Place iron railing around flywheel in engine room and cover or cut off exposed set screws on shafting.—Complied.

Orders Issued by Factory Inspector During 1905 in the City of Duluth.**Steam Laundry:**

Cover all set screws in collars and couplings on line shaft and counter shaft.—Complied.

Wooden Box Factory:

Keep on file child's certificate.—Complied.

Bakery:

Provide rollers on trough boards.—Complied.

Steam Laundry:

Provide guard around socket chain on mangle.—Complied.

Machine Shop and Woodworking Establishment:

Provide guard for jointer.—Complied.

Bakery:

Whitewash interior of building and give general cleaning up.—Complied.

Iron Works:

Provide hoods for blacksmiths' fires.—Order cancelled, other provisions made.

Confectionery Store:

Provide light in elevator shaft and stairway, provide gate for elevator opening in basement.—Complied.

Iron Works:

Provide guard for jointer.—Complied.

Shoe Factory:

Keep on file record of all child employees.—Complied.

Brewery:

Board up opening between wash tub and stairway, repair gate to elevator, 3rd floor of brewhouse.—Complied.

Sheetmetal Works:

Provide gate for elevator shaft in basement.—Complied.

Sash and Door Factory:

Provide gate for elevator shaft.—Complied.

Cooper Shop:

Keep on file record of child labor, provide gate for elevator shaft, at lime kiln, cooper shop and mill. Report accidents.—Complied.

Printing Establishment:

Keep on file record of child employees.—Complied.

Saw Mill:

Remove or cover all exposed set screws, guard coupling.—Complied.

Saw Mill:

Remove or cover all exposed set screws, keep record of child labor.—Complied.

Wholesale Mercantile Establishment:

Provide gates for elevator shaft at two upper stories of new building.—Complied.

Saw Mill:

Cover exposed set screws and coupling, lower floor.—Complied.

Saw Mill:

Remove or cover set screws on shafting, lower floor, also two couplings.—Complied.

Flour Mill:

Cover or remove exposed collar set screws on shafting, provide railings or bars for windows, keep open on top floor.—Complied.

Railroad Companies:

Six orders referring to repairing and replacing worn out and missing foot blocks in switches in the yards in the city of Duluth.—Complied.

Creamery:

Cover or remove exposed set screws on main shaft in basement.—Complied.

Clothing Factory:

Keep on file boy's certificate.—Complied.

Harness Factory:

Cover set screws on shafting on 3rd floor.—Complied.

Department Store:

Comply with child labor laws.—Complied.

Printing Establishment:

Remove or cover exposed set screws on lower shaft.—Complied.

Overall Factory:

Comply with child labor laws.—Complied.

Cigar Factory:

Keep on file boy's certificate.

Shingle Mill:

Keep on file boy's certificate.—Complied.

Furniture Factory:

Provide gates for elevator shaft on first floor of factory.—Complied.

Cigar Factory:

Keep on file boy's certificate.—Complied.

Stone Mill:

Guard flywheel in engine room; provide hand rail for stairway leading from engine room to second floor.—Complied.

ORDERS ISSUED IN COUNTRY DISTRICTS, 1905

Hastings.

Wagon and Carriage Shop:

Box in lower part of band saw.—Complied.

Railroad Switch Yard:

Replace all bad and missing foot blocks.—Complied.

Jordan.

Machine Shop.

Box in lower part of band saw.—Complied.

Brewery:

Provide hand rails for stairs leading to 2d and 3d floor.—Complied.

New Prague.

Flour Mill:

Provide guard around flywheel of Ideal; (engine) box in flange coupling on 4th floor of mill; box in lower part of band saw.—Complied.

Montgomery.

Railroad Switch Yard:

Replace all bad and missing foot blocks.—Complied.

Waterville.

Railroad Switch Yard:

Replace all bad and missing foot blocks.—Complied.

Furniture Factory:

Box in flange coupling on main shaft.—Complied.

Waseca.

Electric Light and Water Works:

Provide guard rail around flywheel of engine.—Complied.

Bakery:

Give bakery a general cleaning out and keep clean.—Complied.

Janesville.

Grain elevator:

Provide hand rails for stairway in elevator.—Complied.

Creamery:

Provide guard rails around flywheel of engine.—Complied.

Wells.

Creamery:

Provide water closet for men at creamery.—

Flour Mill:

Provide hand rails for stairways leading to 4th and 5th floors.—Complied.

Albert Lea.

Railroad Switch Yards:

Two orders referring to switch blocking.—Complied.

Printing Establishment:

Clean out water closet and keep clean.—Complied.

Electric Light Plant:

Provide water closet for male employes at gas plant.—Complied.

Wholesale House:

Remove all boxes and barrels from windows leading to fire escape from sub-basement to 4th floor; remove iron bars in sub-basement from doors or arrange same so as to be taken off easy.—Complied.

Albert Lea.

Water Works:

Provide water closet for employes.—Order cancelled.

Printing Establishment and Bindery:

Provide guard on flywheel of paper cutter, also guard around lever of paper cutter.—Complied.

Steam Laundry:

Designate water closet in rear of building for female employes.—Complied.

Feed Mill:

Put guards on both sides of roller grinders.—Complied.

Printing Establishment:

Provide water closets for male and female employes at once.—Complied.

Wheelwrighting Shop:

Put guard on band saw.—Complied.

Telephone Company:

Provide water closet and wash bowl.—Complied.

Winnebago.

Electric Light and Water Works:

Box in weight of sliding door of boiler room.—Complied.

Blue Earth City.

Electric Light and Water Works:

Provide guard rails around flywheels of both engines.—Complied.

Mankato.

Gas and Electric Plant:

Provide guard rail for outside flywheel of engine No. 4.—Complied.

Grain Elevator:

Cover or remove all exposed set screws wherever found.—Complied.

Lake Crystal.

Flour Mill:

Provide hand rails for stairs 1st and 2d floors.—Complied.

Farmington.**Bakery:**

Whitewash interior of bakery.—Order cancelled.

Madelia.**Grain Elevator:**

Provide hand rails for stairway leading to 2d floor.—Complied.

St. James.**Railroad Switch Yards:**

Replace all bad and missing switch blocks.—Complied.

Grain Elevator:

Provide hand rails for stairway leading to top of building.—Complied.

Sherburn.**Electric Light Plant:**

Provide guard rails around flywheel of engine.—Complied.

Fairmont.**Packing House:**

Provide water closet for men at packing house.—Complied.

Jackson.**Flour Mill:**

Provide water closet for men at mill.—Complied.

Grain Elevator:

Repair outside stairway.—Complied.

Worthington.**Light and Water Plant:**

Provide water closet for men at power house.—Complied.

Adrian.**Railroad Switch Yards:**

Replace all bad and missing foot blocks.—Complied.

Luverne.**Grain Elevator:**

Provide water closet for men at elevator.—Complied.

Pipestone.**Electric Light, Heat and Power Company:**

Provide water closet for men at electric plant.—

Marshall.**Grain Elevator:**

Provide hand rails for stairway in elevator.—Complied.

Farmington.**Switch Yards:**

Replace all bad and missing foot blocks.—Complied.

Stillwater.

Switch Yards:

Two orders—referring to switch blocking.

Kasota.

Grain Elevator:

Provide guard rail around fly wheel of engine.—Complied.

Stone Works:

Provide cover over gear that drives pump; cover or remove all exposed set screws.—Complied.

St. Peter.

Laundry:

Box in pulley of extractor near floor.—Complied.

Brainerd.

Railroad Shops:

Provide inside guard rail for drive belt of Ball & Word and Ideal engines.—Complied.

Electric Light Plant:

Provide guard rails around drive belt on 1st floor.—Complied.

St. Paul Park.

Fibre Goods:

Provide guard rail around flywheel in engine room.—Complied.

Red Wing.

Switch Yards:

Two orders referring to switch blocking.—

Rushford.

Electric Light and Water Works:

Provide guard rails around flywheels of both engines.—Complied.

Austin.

Sash Factory:

Box in lower part of band saw.—Complied.

Winona.

Creamery:

Provide guard for elevator shaft.—Complied.

Owatonna.

Laundry:

Replace guard on mangel.—Complied.

St. Charles.

Electric Light and Water Works:

Provide guard rail around flywheel of engine.—Complied.

Kenyon.**Switch Yard:**

Replace all bad and missing blocks and raise all blocks to proper height.—Complied.

Cannon Falls.**Bakery:**

Whitewash walls and ceiling of bakery.—Complied.

Faribault.**Sash Factory:**

Replace guard on panel raiser, second floor.—Complied.

Shoe Factory:

Provide fire escape near north end of building.—Order extended, giving firm time to get plans.

Wabasha.**Flour Mill:**

Guard core wheel on top floor; box in drive belt on top floor; cover flange couplings on 1st floor and third.—Complied.

Stillwater.**Bakery.**

Whitewash walls and ceiling of bakery.—Complied.

Electric Light Plant:

Provide guard rail for flywheel of engine.—

Coon Creek.

Cover two set screws on main shafting, also put railing on bin and opening at end of platform.—Complied.

Switch Yards:

Properly block all switches, frogs and guard rails, replace all missing blocks and raise all blocks to proper height.—Complied.

Anoka.**Switch Yards:**

Three orders referring to proper switch blocking, frogs and guard rails; replace all missing blocks, raise all blocks to proper height.—Complied.

Elk River.**Switch Yards:**

Four orders referring to proper switch blocking, frogs and guard rails, replace all missing blocks and raise all blocks to proper height.—Complied.

St. Cloud.**Switch Yard:**

Two orders referring to proper switch blocking, frogs and guard rails replace all missing blocks and raise all blocks to proper height.—Complied.

Sauk Rapids.**Switch Yard.**

Properly block all switches, frogs and guard rails, replace all missing blocks and raise all blocks to proper height.—Complied.

Melrose.**Switch Yard:**

Two orders referring to proper switch blocking, frog and guard rails; replace all missing blocks and raise all blocks to proper height.—Complied.

Sauk Center.**Switch Yards:**

Three orders referring to proper switch blocking, frogs and guard rails; replace all missing blocks and raise all blocks to proper height.—Complied.

Long Prairie.**Switch Yards:**

Properly block all switches, frogs and guard rails; replace all missing blocks and raise all blocks to proper height.—Complied.

Alexandria.**Flour Mill:**

Cover circle saw on the end of shafting, place railing across wheat bin in upper floor and remove or cover all projecting set screws on shafting.—Complied.

Switch Yards:

Two orders referring to proper switch blocking, frogs and guard rails; replace all missing blocks and raise all blocks to proper height.—Complied.

Barnesville.**Switch Yards:**

Same order as above.—Complied.

Fergus Falls.**Switch Yards:**

Three orders referring to switch blocking, same order as above.—Complied.

Moorhead.**Switch Yards:**

Two orders, same as above.—Complied.

Lake Park.**Switch Yards:**

Properly block all switches, frogs and guard rails; replace all missing blocks and raise all blocks to proper height.—Complied.

Winnipeg Junction.

Switch Yards:

Same order as above.—Complied.

Detroit.

Switch Yards:

Two orders, same as above.—Complied.

Frazee.

Switch Yards:

Two orders, same as above.—Complied.

Perham.

Switch Yards:

Two orders, same as above.—Complied.

Wadena.

Switch Yards:

Two orders, same as above.—Complied.

Staples.

Switch Yards:

Same order as above.—Complied.

Little Falls.

Switch Yards:

Properly block all switches, frogs and guard rails; replace all missing blocks and raise all blocks to proper height.—Complied.

Ada.

Creamery:

Cut down exposed end of key in flywheel of engine.—Complied.

Crookston.

Laundry:

Replace belt shifter on extractor, cover or remove all exposed collar, set screws.—Complied.

Bottling Works:

Cover or remove exposed collar set screws.—Complied.

Bottling Works:

Provide guard around elevator opening first floor.—Complied.

Warren.

Grain Elevator:

Two orders referring to providing cap over exposed end of crank shaft of gasoline engine.—Complied.

Grain Elevator:

Have exposed end of crank shaft left hand side of gasoline engine cut off or securely covered.—Complied.

Albert Lea.

Cigar Factory:

Improve conditions in factory so as to get a good flow of water closet.—Order extended; later complied.

Milaca.**Switch Yards:**

Properly block all switches, frogs and guard rails at once; replace all missing blocks, see that all blocks are raised to proper height.—Complied.

Princeton.**Bakery:**

Keep bakery clean in front of oven; remove all rubbish.—Complied.

Switch Yards:

Two orders referring to switch blocking, frogs, guard rails; replace all missing blocks, see that all blocks are raised to proper height.—Complied.

Electric Light and Water Plant:

Provide outside water closet for employes; put up guard around engine and dynamo in engine room at once.—Complied.

Foley.**Switch Yards:**

Two orders, referring to switch blocking, frogs and guard rails; replace all missing blocks, see that all blocks are raised to proper height.—Complied.

Barrel Factory:

Extend blower system to sand papering machine in pail room; enclose a suitable room for sawdust and shavings in engine or boiler room, so as to get rid of the dust that comes off from the saws and blowers, at once.—Complied.

Mora.**Switch Yards:**

Properly block all switches, frogs and guard rails at once; replace all missing blocks, see that all blocks are raised to proper height.—Complied.

Water Works:

Provide suitable railing around pump pit.—Complied.

Sandstone.**Bakery:**

Clean up bake room and fix floor.

Stone Quarry:

Provide suitable railing in engine room in front of belt pit.—Complied.

Switch Yards:

Three orders referring to proper switch blocking, frogs and guard rails at once; replace all missing blocks and see that blocks are raised to proper height.—Complied.

Stone Quarry:

Provide guard for band saw; put iron railing around flywheel of engine, put iron railing around receiving tank pit.—Complied.

Rutledge.

Switch Yards:

Block all switches over in your section.—Complied.

Finlayson.

Switch Yards:

Properly block all switches, frogs and guard rails at once; replace all missing blocks; see that all blocks are raised to proper height.—Complied.

Willow River.

Switch Yards:

Re-block your yard; replace all missing switch blocks.—Complied.

Pine City.

Switch Yards:

Two orders referring to proper switch blocking, frogs, guard rails at once; replace all missing blocks, see that all blocks are raised to proper height.—Complied.

North Branch.

Switch Yards:

Properly block all switches, frogs, guard rails at once; replace all missing blocks, see that all blocks are raised to proper height.—Complied.

Rush City.

Switch Yards:

Properly block your yard at once.—Complied.

Maple Plain.

Switch Yards:

Properly block all switches, frogs and guard rails; see that all low blocks are raised to proper height; replace all missing blocks.—Complied.

Delano.

Switch Yards:

Same as order above.—Complied.

Howard Lake.

Switch Yards:

Same order as above.—Complied.

Waverly.

Switch Yards:

Same order as above.—Complied.

Cokato.

Switch Yards:

Same order as above.—Complied.

Creamery:

Put guard around fly wheel of engine.—Complied.

Litchfield.

Feed Mill:

Put guard around fly wheel of gasoline engine.—Complied.

Electric Light and Water Works:

Put guards around belts of dynamos.—Complied.

Switch Yards:

Properly block all switches, frogs and guard rails; see that all low blocks are raised to proper height; all missing blocks replaced.—Complied.

Willmar.

Sash and Door Factory:

Put guard rail around fly wheel of engine; countersink or cover set screws.—Complied.

Switch Yards:

Properly block all switches, frogs and guard rails; see that low blocks are raised to proper height; replace all missing blocks.

Benson.

Elevator:

Put railing on stairway from bottom to top of elevator; put pulley and drive rope on upper floor.—Complied.

Flour:

Put railing on stairway to third story; cover all exposed set screws.—Complied.

Switch Yards:

Properly block all switches, frogs and rails; see that all low blocks are raised to proper height; replace all missing blocks.—Complied.

Appleton.

Switch Yards:

Two orders referring to proper switch blocking frogs and guard rails; see that all low blocks are raised to proper height; replace all missing blocks.—Complied.

Ortonville.

Switch Yards:

Same order as above.—Complied.

Granite Works:

Cover or countersink set screws. Box drive belt in engine.—Complied.

Flour:

Box belt on bran packer; cover or countersink all set screws.—Mill shut down.

Stone Mill:

Put heavier shafting on emery wheel; cover or countersink exposed set screws.—Complied.

Grain Elevator:

Put railing on stairway in elevator from bottom to top.—Complied.

Graceville.

Creamery:

Put guard around fly wheel of engine; provide water closet.—First and second order cancelled.

Flour:

Cover or countersink all set screws.—Complied.

Electric Light and Water Plant:

Put guard rail around fly wheel of engine; also around fly wheel of gasoline engine.—Complied.

Switch Yards:

Two orders referring to proper switch blocking, frogs and guard rails; see that all low blocks are raised to proper height and all missing blocks replaced.—Complied.

Breckenridge.

Switch Yards:

Same order as above.

Electric Light and Water Plant:

Provide water closet for employees.—Complied.

Morris.

Switch Yards:

Three orders referring to proper switch blocking, frogs and guard rails; see that all low blocks are raised to proper height; replace all missing blocks.—Complied.

Glenwood.

Switch Yards:

Same order as above.

Paynesville.

Storage:

Put guard rail around fly wheel of engine running dynamos.

Buffalo.

Creamery:

Put guard rail around fly wheel of engine; cover all exposed set screws.—Complied.

Switch Yards:

Properly block all switches, frogs and guard rails; see that all low blocks are raised to proper height; replace all missing blocks.—Complied.

Belle Plain.

Printig:

Build closet for use of employees.

Bakery:

Whitewash interior and keep clean.—Complied.

Sleepy Eye.

Electric Light and Water Works:

Put guard rail around belts of dynamo, also around flywheel of engine, provide water closet for employes.—Order set aside, changes in plant.

Redwood Falls.

Bakery:

Whitewash bake room and clean up generally.

Granite Falls.

Electric Light and Water Plant:

Put guard rail around pump belt; put new belt on little dynamo without lacing.—Complied.

Flour Mill:

Put on dust collector second floor of mill.—Complied.

Eveleth.

Bakery:

Provide rollers for trough.

Bakery:

Provide rollers for trough.—Complied.

Electric Light Plant:

Rail around fly wheel of old engine.—Complied.

Virginia.

Bakery:

Clean up and whitewash bakery, provide rollers for troughs.—Complied.

Saw Mill:

Provide railing for fly wheel in engine room.—Complied.

Laundry:

Cover gearing of mangle.—Complied.

Chisholm.

Saw Mill:

Cover exposed end of shaft, lower floor of saw mill.—Complied.

Hibbing.

Bakery:

Provide rollers for troughs. Clean up and whitewash bakery.—Complied.

Bakery:

Same order as above.—Complied.

Switch Yards:

Two orders referring to proper switch blocking.—One order complied.

Virginia.

Switch Yards:

Replace all missing foot blocks.—Complied.

Eveleth.

Switch Yards:

Same order as above.—Complied.

Ely.**Bakery:**

Provide rollers for trough.—Complied.

Tower Junction.**Switch Yards:**

Replace all bad and missing foot blocks.—Complied.

Two Harbors.**Switch Yards:**

Replace all bad and missing blocks.—Complied.

Fosston.**Flour Mill:**

Provide one outside fire escape.—Order cancelled, fire escape not required.

Park Rapids.**Saw Mill:**

Provide guard for slasher.—Complied.

Deer River.**Switch Yards:**

Replace all missing foot blocks.—Complied.

Akeley.**Saw Mill:**

Box up flange couplings on shafting, lower floor of saw mill, cover or remove all exposed set screws.

Bemidji.**Switch Yards:**

Keep switches properly blocked.—Complied.

Switch Yards:

Replace all missing foot blocks.—Complied.

Cass Lake.**Switch Yards:**

Replace all missing foot blocks.—Complied.

Saw and Planing Mill:

Keep employment certificate for all boys under 16 years of age, on file; provide guard for slasher; remove or cover all set screws.

Carlton.**Switch Yards:**

Three orders to replace all faulty and missing blocks.—Complied.

Scanlon.**R. R. Roundhouse:**

Provide movable hoods for jacks of smoke-stacks in roundhouse.—Complied.

Cloquet.**Paper Mill:**

Guard drive wheel on engine No. 1; provide hand rail on platform and stairway over boilers; provide railing on bridge over dam.—Complied.

Saw Mill:

Cover coupling on line shaft, lower floor; box up gearing.—Complied.

Saw Mill:

Box up one coupling on main shaft and one on line shaft.—Complied.

Machine Shop:

Remove or cover all set screws; box up coupling.

Planing Mill:

Box up end of shaft on band saw; box up or cover gearing on siding saw; provide belt shifter for siding saw.—Complied.

Water Power Mill:

Cover couplings on main shaft and center shaft; box up end of main shaft.—Complied.

Saw Mill:

Cover three couplings lower floor of saw mill.—Complied.

Box Factory:

Rail in drive belt in engine room, also two pulleys in basement.—

Switch Yards:

Replace all faulty and missing foot blocks.—Complied.

Switch Yards:

Replace all missing and faulty foot blocks.

Grand Rapids.**Planing Mill:**

Provide belt shifter for molder and rip saw.

Paper Mill:

Provide belt shifters for barkers; remove or cover all set screws.

Bakery:

Keep on file boys' certificates.

Switch Yards:

Two orders to replace all faulty and missing switch blocks.—Complied

Aitken.**Stave Mill:**

Cover or remove all set screws.

Stave Mill:

Provide belt shifter for edger.

Shingle Mill:

Box up haul-up gear, end of counter shaft, end of line shaft; guard fly wheel in engine room.—Complied.

Saw Mill:

Guard drive wheel in engine room, provide belt shifter for planer; cover or remove all set screws.—

ORDERS ISSUED, 1906

Orders Issued by Factory Inspectors in the City of St. Paul during 1906

Steam Laundry:

Box in pulley of extractor near floor, repair stairway leading to basement.—Complied.

Machine Shop:

Put water closet in good sanitary condition and keep the same clean.—clean.—Complied.

Planing Mill:

Repair water closet, place it in good sanitary condition and keep it clean.—Complied.

Machine Shop and Foundry:

Box in lower part of band saw, provide guard rail for stairway leading to second floor.—Complied.

Steam Laundry:

Provide one chemical fire extinguisher for each floor in your factory.—Complied.

Furniture Factory:

Provide one chemical fire extinguisher for each floor in your factory.—Complied.

Wagon Works:

Provide one chemical fire estinguisher for each floor in your factory.—Complied.

Trunk Factory:

Provide chemical fire extinguishers for your factory.—Complied.

Refrigerator Works:

Provide guard rails around belts and fly wheels of both engines.—Complied.

Brass Works:

Provide one chemical fire extinguisher for each floor in your factory.—Complied.

Confectionery:

Provide one chemical fire extinguisher for each floor in your building.—

Grain Elevator:

Provide one chemical fire extinguisher for each floor.—Complied.

Agricultural Machine Works:

Provide one chemical fire extinguisher for each floor.—Complied.

Furniture Factory:

Provide one chemical fire extinguisher for each floor in your building.—
Complied.

Paint Factory:

Provide one chemical fire extinguisher for each floor in your factory.—
Complied.

Box Factory:

Box in pulley and belt of band saw, provide cover for shaft on second
floor.—Complied.

Wagon Factory:

Box in lower parts of both band saws.—Complied.

Bakery:

Give bakery general cleaning and whitewash it.—Complied.

Bakery:

Whitewash bakery walls and ceiling.—Complied.

Bakery:

Give bakery general cleaning and whitewash it.—Complied.

Bakery:

Whitewash interior of your bakery.—Complied.

Bakery:

Give bakery general cleaning and whitewash it.—Complied.

Bakery:

Give bakery general cleaning and keep it clean.—Order cancelled.

Skirt Factory:

Provide chemical fire extinguishers for your factory.—Complied.

Wholesale Millinery:

Provide chemical fire extinguishers for each floor.—Complied.

Bottling Factory:

Provide chemical fire extinguishers for each floor.—Complied.

Sheet Metal Works:

Provide chemical fire extinguishers for each floor.—Complied.

Tailoring:

Provide chemical fire extinguishers for second and third floors.—Com-
plied.

Electro Plating:

Provide chemical fire extinguishers for third floor.—Complied.

Food Product Factory:

Provide chemical fire extinguishers for each floor.—Complied.

Electric Lighting, Heat & Power Plant:

Provide chemical fire extinguishers for each floor.—Complied.

Machine Shop:

Provide guard for bevel gear of drill press.—Complied.

Photo Engraving:

Remove obstructions from fire escape exit and remove nail from win-
dow leading to fire escape.—Complied.

Sash and Door Factory:

Provide guard around fly wheel of engine. Cover or remove all exposed collar set screws. Provide guard for bevel gear of drill press in engine room.

Bar and Office Fixtures Factory:

Put water closet in order immediately.—Shop moved to other quarters, order cancelled.

Paint Factory:

Provide chemical fire extinguishers for each floor.—Complied.

Carriage and Toy Factory:

Provide chemical fire extinguishers for each floor.—Complied.

Confectionery Factory:

Provide chemical fire extinguishers for each floor.—Complied.

Creamery:

Provide chemical fire extinguishers for each floor.—Complied.

Foundry:

Provide chemical fire extinguishers for each floor.—Complied.

Machine Shop:

Provide chemical fire extinguishers on second floor.—Complied.

Steam Laundry:

Provide chemical fire extinguishers for each floor.

Brush Factory:

Provide chemical fire extinguishers for each floor.—Complied.

Stamp Works:

Provide chemical fire extinguishers on each floor.

Tent and Awning Factory:

Provide chemical fire extinguisher on first and third floors.—Complied.

Pelts and Fur Factory:

Provide chemical fire extinguishers on first, second and third floors.—Complied.

Cap Factory:

Provide external fire escape; provide chemical fire extinguishers in factory; provide separate closet and dressing room for use of female employes.

Printing Establishment:

Provide chemical fire extinguishers.—Complied.

Printing Establishment:

Provide chemical fire extinguishers on each floor of building.—Complied.

Printing Establishment:

Provide chemical fire extinguishers for each floor.—Complied.

Bakery:

Whitewash walls and ceiling of bakery.—Complied.

Junk Shops:

Provide lock for ladies' water closet and keep key of same in office.—Complied.

Shoe Polish Factory:

Provide separate water closet for female employes.

Bakery:

Discontinue use of basement for baking purpose.

Steam Laundry:

Provide chemical fire extinguishers for each floor.—Complied.

Confectionery Factory:

Provide chemical fire extinguishers in factory; provide external fire escape.

Fur Garment Factory:

Provide chemical fire extinguishers for each floor.

Bakery:

Whitewash walls and ceiling of bakery.

Florists:

Provide chemical fire extinguishers and stand pipes on each floor.

Trunk and Bag Factory:

Provide chemical fire extinguishers on third floor.

Shirt Factory:

Provide chemical fire extinguishers on second and third floors. Place roof ladder within access of employes on third floor.—Complied.

Shirt Factory:

Provide chemical fire extinguishers for your factory.—Complied.

Cloth Hat and Cap Factory:

Provide chemical fire extinguishers for factory.

Printing Est:

Provide chemical fire extinguishers on each floor.—Complied.

Printing and Publishing Est:

Provide chemical fire extinguishers on each floor.—Complied.

Cigar Factory:

Provide chemical fire extinguishers on each floor.—Complied.

Printing Est:

Provide chemical fire extinguishers on second and third floors.

Office and Factory Building:

Provide chemical fire extinguishers on each floor, also inside standpipes with hose connections.

Department Stores:

Provide chemical fire extinguishers.—Complied.

Confectionery Factory:

Whitewash interior of candy factory.

Railroad Companies:

Eleven orders to replace and repair all missing and bad foot blocks in switches, frogs and guard rails in their switch yards in the city of St. Paul.—All orders have been complied with.

Orders Issued by Factory Inspectors in the City of Minneapolis During 1906.**Bakery:**

Clean floor and fixtures also whitewash ceiling and walls and remove all accumulated dirt in work room.—Complied.

Bakery:

Clean floor of work room and remove all dirt and rubbish from shelves and fixtures.—Complied.

Tailoring Shop:

Provide water closet on third floor.

Confectionery Factory:

Remove all rubbish from work room and scrub floor, placing it in good sanitary condition.—Complied

Bakery:

Clean fixtures and floor of work room.—Complied.

Confectionery Factory:

Remove all dirt from shelves and tables of work room, also clean and scrub floor placing it in good sanitary condition.—Order cancelled, firm moved to other quarters 2-21-06.

Bakery:

Remove all rubbish from work room and scrub floor and fixtures.—Complied.

Moulding and Fixture Factory:

Provide boxing for band saw under table, also provide guards for emery wheels, also enclose all pulleys and shaftings on floor and provide stairway with hand rails and suitable treads.

Bakery:

Remove dirt and rubbish from floor and scrub floor and fixtures.

Bakery:

Remove all dirt from work room and scrub floor and fixtures.—Complied.

Paper Box Factory:

Provide railing around press drill pulley on floor, remove or cover all exposed set screws, provide hand rails on all stairways, also along balcony above machine shop. Provide emery wheels with proper guards. Designate water closet.—Complied.

Engraving:

Provide two chemical fire extinguishers for work room.—Complied.

Vest Maker:

Provide one chemical fire extinguisher for work room.—Order cancelled.

Tailoring Shop.

Provide one chemical fire extinguisher for work room.—Order cancelled.

Pickle Factory:

Provide one chemical fire extinguisher for the third, fourth and fifth floors of your factory.—Complied.

Furniture Factory:

Provide one chemical fire extinguisher for the third floor of your factory.—Complied.

Box Factory:

Provide one chemical fire extinguisher for third floor of box factory.—Complied.

Baby Carriage Factory:

Provide guard around electric motor. Place guard on band saw under table and put toilets in good sanitary condition and designate them.—Complied.

Dyeing and Cleaning:

Provide one chemical fire extinguisher on third floor of your factory.—Complied.

Tent and Awning Factory:

Provide sufficient chemical fire extinguishers for factory.—Complied.

Saddlery Factory:

Provide sufficient chemical fire extinguishers in factory.—Complied.

Pattern Factory:

Provide guard for band saw on fly wheel under table.—Complied.

Baking Powder Factory:

Provide guards around pulleys on third floor; remove all obstructions to fire escape on second and third floors and provide sufficient chemical fire extinguishers for factory.—Complied.

Shoe Factory:

Remove all obstructions to fire escape and provide sufficient chemical fire extinguishers for factory.

Printing Est:

Remove all set screws. Place guard on fly wheel of printing press.—Complied.

Seed Factory:

Remove all obstructions to fire escape on the second, third and fourth floors.—Complied.

Confectionery Factory:

Provide sufficient chemical fire extinguishers for factory.—Complied.

Slot Machine Factory:

Provide sufficient fire extinguishers for work room.

Saw Repairing Factory:

Provide sufficient chemical fire extinguishers for building.—Complied.

Confectionery Factory:

Provide sufficient chemical fire extinguishers for factory, also clean floor and fixtures on second and third floors.—Order cancelled, firm moved to other quarters.

Confectionery Factory:

Provide sufficient chemical fire extinguishers for factory.—Complied.

Office and Factory Building:

Order for fire extinguishers.—Complied.

Artificial Limb Factory :

Provide sufficient chemical fire extinguishers for factory.—Complied.

Trunk factory:

Provide sufficient chemical fire extinguishers for factory.—Complied.

Clothing Factory:

Provide sufficient chemical fire extinguishers for factory.—Complied.

Tent and Awning Factory:

Provide two chemical fire extinguishers for factory.—

Cigar Factory:

Provide chemical fire extinguishers for factory.—Complied.

Furriers and Fur Dressers:

Provide external fire escape on alley of building and at least one chemical fire extinguisher for each floor of building.—Complied.

Shoe Factory:

Provide external fire escape on Fifth street side of factory and provide at least one chemical fire extinguisher for each floor of building and place a railing around fly wheel and cable dynamo in engine room.

Steam Laundry:

Provide four chemical fire extinguishers for laundry one on each floor —Complied.

Jewelry:

Provide one chemical fire extinguisher for work shop.—Complied.

Cutting School:

Provide one chemical fire extinguisher for work room.

Shade Cloth Factory:

Provide one chemical fire extinguisher for factory.—Complied.

Carriage Factory:

Provide one chemical fire extinguisher for each floor of your building.

Furniture Factory:

Provide at once chemical fire extinguishers for your factory.—Complied.

Furniture Factory:

Provide at once chemical fire extinguishers for three floors.—Complied.

Baby Carriage and Wagon Factory:

Provide railing around fly wheel of engine, put railing on stairs leading to basement, install blower system in woodworking room in basement to all machines.—First two orders complied, third order cancelled.

Furniture Factory:

Provide proper guard on band saw.—Complied.

Box Factory:

Box up all exposed gearing on exposed belting. Keep floors clean and in a passable condition around all dangerous machines.—Complied.

Bakery:

Clean floor of your bakery and keep same clean.—Complied.

Steam Laundry:

Cover or remove all exposed screws throughout laundry on shafting. —Complied.

Suspender Factory:

Box up end of shafting on machine table.

Tailoring Shop:

Provide one chemical fire extinguisher for use in case of fire.—Complied.

Printing Est:

Provide one chemical fire extinguisher for use in case of fire.—Complied.

Sash and Door Factory:

Box all exposed belting throughout factory. Put up suitable guard for large band saw in new building. Keep floors in passable condition and floors cleaner. Clear out all boys under 16 years of age without school permits.—Complied.

Grain Elevator:

Provide light for stairs leading up through elevator. Provide chemical fire extinguishers throughout building.—Complied.

Tea and Coffee:

Put railing around motors and clean out toilet on first floor.—Complied.

Office and Factory Building:

Put at once one chemical fire extinguisher on each floor.—Complied.

Furniture Factory:

Keep clear passage to fire escape. Provide chemical fire extinguishers for factory.—Complied.

Iron Bed and Bedding Factory:

Have passage way leading to the two fire escapes on second, third, fourth and fifth floors clear from all obstructions and keep it clear.—Complied.

Sash and Door Factory:

Provide fire extinguishers for your factory.—Complied.

Furniture Factory:

Put railing on stairs leading to basement. Provide water tanks for drinking water. Clean water closet, keep floors in clean condition. Keep on file child labor certificates.—Complied.

Paper Factory:

Put hinges on skylight in picking room for ventilation. Provide chemical fire extinguisher for use of fire.—Complied.

Sash and Door Factory:

Provide at once chemical fire extinguishers throughout factory and warehouse.—Complied.

Beds and Bedding Factory:

Provide at once chemical fire extinguishers throughout bedding factory.—Complied.

Fireproof Door Factory:

Provide chemical fire extinguishers for your factory.—Complied.

Office and Factory Building:

Provide inside standpipes for building.

Saw Mill Machinery Factory:

Provide chemical fire extinguisher for your factory.—Complied.

Butchers' Supplies:

Provide at once belt shifter for rod saw on first floor.

Furniture Factory:

Provide automatic gates on third floor where the one is gone, also see to it that gates are kept in good working order. Do not allow employees to fasten gates.—Complied.

Furniture Factory:

Provide chemical fire extinguishers for two floors occupied by you.—Complied.

Sash and Door Factory:

Provide and maintain automatic gates on elevator openings in basement.

Furniture Factory:

Provide chemical fire extinguishers for your factory. Put privys in rear of factory in a good sanitary condition, or install water closets throughout factory one on each floor. One week will be given on the privys, 30 days on the water closets.

Casket Factory:

Provide chemical fire extinguishers for your factory.—Complied.

Tailoring Shop:

Put water closet or privy in rear of tailor shop in good sanitary condition.—Complied.

Wooden Specialties and Sheet Iron:

Enclose stairway leading up stairs, provide railing on stairs leading to basement. Provide guard on band saw.

Screen Door Factory:

Provide chemical fire extinguishers for factory.—Complied.

Bag Factory:

Provide chemical fire extinguishers for bag factory and cooper shop.—Order withdrawn.

Type Foundry:

Provide chemical fire extinguishers for your factory.—Complied.

Confectionery Factory:

Provide chemical fire extinguishers for your factory. Clean water closet and floors.—Complied.

Legal Blank Factory:

Provide chemical fire extinguishers for your factory fifth floor.—Complied.

Bakery:

Remove all dirt and rubbish from work room and scrub floor and fixtures and whitewash ceiling and walls.

Department Store:

Provide chemical fire extinguishers for store and work room on the fourth floor.—Complied.

Chair Factory:

Provide chemical fire extinguishers for your factory at once. Discharge all children under 14 years of age, after Sept. 1st. Keep on file certificates required by law for children under the age of 16 years.

Bakery:

Whitewash your work room in your bakery, keep your floors in a cleaner condition, also your floor in store room and keep your fixtures clean.

Canning and Preserving:

Put one chemical fire extinguisher on third floor of building you are using.—Complied.

Dye House:

Put one chemical fire extinguisher on third floor of brick building you are using as dye house.—Complied.

Jewelry:

Put in chemical fire extinguisher on 3rd floor of building occupied by you as work shop and office.—Complied.

Sheet Metal Works:

Put your water closet in good sanitary condition. Put guard rail around flywheel of gasoline engine.—Complied.

Tent and Awning Factory:

Put one chemical fire extinguisher on third floor of building occupied by you.

Tailoring Shop:

Put fire extinguisher on third floor of building occupied by you as work shop.—Complied.

Knitting Factory:

Put chemical fire extinguisher on fourth floor of building occupied by you as work shop.—Complied.

Furniture Factory:

Put one chemical fire extinguisher on third floor of your factory, also one on fourth floor of factory.—Complied.

Brass and Metal Works:

Put one chemical fire extinguisher on third floor of your building occupied by you.

Sheet Metal Works:

Put one fire extinguisher on second floor and one on third floor of building occupied by you.—Complied.

Electrical Vault Protectors:

Put one fire extinguisher on second floor and one on third floor of your workshop.—Complied.

Machine Shop:

Put in a sufficient number of chemical fire extinguishers in building occupied by you.—Complied.

Sheet Metal Works:

Put one chemical fire extinguisher in building occupied by you.—Complied.

Agricultural Implements:

Provide sufficient chemical fire extinguishers in your two main buildings.

Sash and Door Factory:

Provide a sufficient number of chemical fire extinguishers on third floor of building occupied by you.—Order Cancelled.

Sash and Door Factory:

Put one chemical fire extinguisher on second and third floors of your factory. Also one on third floor of your office building.—Complied.

Desk Factory:

Put one chemical fire extinguisher on third floor and one on fourth floor of your factory.

Bindery:

Provide one chemical fire extinguisher on second floor and one on third floor of your bindery.—Order cancelled, moved to other quarters.

Pattern Makers:

Put one chemical fire extinguisher on third floor occupied by you as work shop.

Machine Shop:

Put one chemical fire extinguisher in work room occupied by you.

Agricultural Implements:

Put two chemical fire extinguishers in your three-story building.

Paint Factory:

Put four chemical fire extinguishers in your main building, one on each floor.

Brewing:

Put three chemical fire extinguishers in your mill.—Complied.

Harness and Saddlery:

Put one chemical fire extinguisher on third floor of your building occupied as work room.

Leather Belt Factory:

Put in outside stand-pipes with hose connection, also put one chemical fire extinguisher on third floor of your factory.

Cigar Factory:

Put two chemical fire extinguishers on second, third and fourth floors of your two factories.

Railroad Companies:

Twenty-three orders to replace and repair all missing and bad foot blocks in switches, frogs and guard rails in their switch yards in the city of Minneapolis.—Complied.

Orders Issued by Factory Inspector During 1906 in the City of Duluth.**Steam Laundry:**

Close in upper part of east side of elevator shaft on first floor.—Complied.

Saw Mill:

Report accidents. Box up gearing on lower floor, box up all couplings, cover or remove all exposed set screws.—Complied.

Saw Mill:

Cover or remove all exposed set screws.—Complied.

Hardware:

Comply with child labor laws.—Complied.

Match Factory:

Do not allow any children under 16 years of age to work more than ten hours in any one day, nor more than sixty hours in any one week.
—Complied.

Saw Mill:

Cover exposed gearing on upper floor, also box in end of line shaft lower floor, erect steps over cross shaft east end of mill and cover or remove all set screws.—Complied.

Sash and Door Factory:

Comply with child labor laws and keep on file employment certificates for boys under 16.—Complied.

Saw Mill:

Box up driving gear north-east corner lower floor of mill.—Complied.

Printing Establishment:

Comply with child labor laws and keep on file employment certificates for boys under 16.—Complied.

Printing Establishment:

Comply with child labor laws and keep on file employment certificates for boys under 16.—Complied.

Boiler Works:

Report all accidents.—Complied.

Foundry and Machine Shop:

Provide better ventilation in logging tool shop.—Complied.

Saw Mill:

Box up all exposed gearings on upper floor of mill.—Complied.

Confectionery Store:

Discontinue the use of water closet on second floor.—Complied.

Wholesale Groceries:

Keep proper record of all child employees.

Wholesale Groceries:

Provide gates for elevator shaft at every floor.—Complied.

Wholesale Groceries:

Keep proper records of all child employees.

Saw Mill:

Cover all exposed gearing upper floor of mill.

Railroad Companies:

Nine orders referring to repairing and replacing worn out and missing foot blocks in switches in the yards in the city of Duluth.—Complied.

ORDERS ISSUED IN COUNTRY DISTRICTS, 1906

Hastings.

Railroad Switch Yards:

Two orders referring to switch blocking.

Red Wing.

Railroad Switch Yards:

Properly block all switches and frogs.

Brick Yard:

Guard flywheel of engine. Provide guard rail for stairs leading to second floor.—Complied.

Planing Mill:

Provide chemical fire extinguishers on each floor.—Complied.

Furniture Factory:

Provide chemical fire extinguishers on each floor in both buildings.

Hat Factory:

Provide inside standpipes with hose connection on each floor, also chemical fire extinguishers.—Complied.

Advertising Establishment:

Provide hose for stand pipes.

Shoe Factory:

Provide inside stand-pipes with hose connection on each floor.

Winona.

Sash and Door Factory:

Provide chemical fire extinguishers on each floor.—Complied.

Flour:

Provide chemical fire extinguishers on each floor.—Complied.

Boot and Shoe Factory:

Provide chemical fire extinguishers on each floor.—Complied.

Confectionery:

Provide chemical fire extinguishers on each floor.

Carriage Factory:

Box in lower part of band saw.—Complied.

Austin.

Sash and Door Factory:

Box in lower part of band saw.

Northfield.

Bakery:

Whitewash walls and ceiling of bakery.

Owatonna.

Manufacturing Woodenware:

Box in lower part of band saw.

Rochester.**Cigar Factory:**

Provide water closet for use of tenants.

Monuments and Tombstones:

Provide water closet for use of employees.

Kenyon.**Blacksmithing:**

Box in lower part of band saw.

Railroad Switch Yards:

Replace all bad switch and frog blocking.—Complied.

Cannon Falls.**Creamery:**

Place railing around platform in engine room.

Stillwater.**Shoe Factory:**

Provide chemical fire extinguishers.

Ada.**Bakery:**

Whitewash walls of bakery.—Complied.

East Grand Forks.**Electric Light & Power Co.:**

Provide guard rail for fly wheel of both engines.

Hallock.**Flour:**

Provide railing around landing of stairway on second and third floor

Anoka.**Flour and Feed:**

Provide in convenient place sufficient toilet bowls for employees' use.

Champlain.**Flour and Feed:**

Provide chemical fire extinguishers for each floor of mill.—Complied.

Sartell.**Flour and Feed:**

Provide outside privy for employees and provide railings around landing and stairway throughout mill, and provide four chemical fire extinguishers one on each floor ready for use.

Sauk Center.**Wagon Factory:**

Provide two chemical fire extinguishers for each floor of factory.

Alexandria.**Flour and Feed:**

Provide three chemical fire extinguishers, one on each floor.

Princeton.**Brick Yard:**

Discharge all children under 16 years, or keep on file certificates required by law.

Brick Yard:

Discharge all children under 16 years, or keep on file certificates required by law.

Brick Yard:

Discharge all boys under 16 years, or keep on file certificates required by law.

Brick Yard:

Discharge all children under 16 years, or keep on file certificates required by law.—Complied.

Brick Yard:

Discharge all children under 16 years, or keep on file certificates required by law.—Complied.

North Branch.**Agricultural Implements:**

Guard band saw.

Sleepy Eye.**Electric Light and Water Works:**

Provide at once a railing around dynamo and engine in your plant.

Flour:

Cover or counter-sink all exposed set screws on main line shaft over head on first floor, put railings around all elevator holes in both mills on both elevators.—Complied.

Belle Plaine.**Printing:**

Provide water closet in rear of building at once.

Chaska.**Brick Yard:**

Discharge all children under 14 years.

Brick Yard:

Discharge all children under 14 years. Put up guard around flywheel in engine room.

Brick Yard:

Discharge all children under 14 years. Put up guard around flywheel in engine room.

Brick Yard:

Discharge all children under 14 years. Put up guard around flywheel in engine room, cover gearing back end of brick machine.

St. Peter.**Shirt Factory:**

Provide hose connections for stand pipes on every floor.—Complied.

New Prague.

Brewing:

Box up flange coupling of shaft in brewing room, cover or remove set screws on same shaft.

Waseca.

Electric Light and Water Works:

Provide guard around flywheel of Ideal engine.—Complied.

Waterville.

Railroad Switch Yards:

Replace all bad and missing switch blocks.—Complied.

Furniture Factory:

Provide chemical fire extinguishers for each floor in your factory building.—Complied.

Albert Lea.

Water Works:

Provide closet for men at pumping station.

Printing:

Provide additional water closet for female help.

Winnebago.

Grain Elevator:

Repair outside stairway.—Complied.

Mankato.

Railroad Switch Yards:

Replace all bad and missing switch blocks.

Adrian.

Grain Elevator:

Box in shaft in elevator near first floor of building.

Luverne.

Railroad Switch Yards:

Two orders referring to switch blocking.—Complied.

Marshall.

Railroad Switch Yards:

Replace all bad and missing switch blocks and raise all low ones to proper height.—Complied.

Howard Lake.

Flour and Saw Mill:

Put in two chemical fire extinguishers.—Complied.

Delano.

Woolen Mill:

Put in two chemical fire extinguishers in your factory.

Waverly.

Printing:

Put your work room in a sanitary condition.—Complied.

Cokato.**Canning Co.:**

Put in two chemical fire extinguishers in your building.

Flour:

Put in two chemical fire extinguishers in your mill.

Litchfield.**Flour and Feed:**

Put in one chemical fire extinguisher on third floor of your mill, provide hand rails for stairs leading to upper floors.

Willmar.**Creamery:**

Put guard rail around flywheel of your gasoline engine.

Flour:

Put in two chemical fire extinguishers in your flour mill, one on third floor and one on fourth floor.

Benson.**Electric Light and Water Works:**

Put guard rail around your main flywheel in light plant.

Steam Laundry:

Put a water closet in your laundry for the use of your employees.

Ortonville.**Grain Elevator:**

Put hand rails on your stairways in your mill from ground floor to top of mill.

Grain Elevator:

Put box over your line shaft from engine house to elevator.

Wheaton.**Repair Shop:**

Cover or sink all set screws on shafting. Put guards on emery wheels, put guard rail around flywheel of gasoline engine.

Flour:

Put two chemical fire extinguishers in your mill.

Morris.**Flour and Feed:**

Put in two chemical fire extinguishers in your mill.—Complied.

Glenwood.**Electric Light:**

Put guard rails around both flywheels, put guard rail around dynamo belt.

Paynesville.**Flour and Feed:**

Put in two chemical fire extinguishers in your mill.—Complied..

Hopkins.**Agricultural Implements:**

Cover or counter-sink all set screws on collar on shafting or otherwise, put guard on emery wheel.

Virginia.**Railroad Switch Yards:**

Three orders referring to switch blocking.

Bakery:

Clean up and whitewash.

Eveleth.**Publishing and Printing:**

Keep on file boys' certificates.

Railroad Switch Yards:

Two orders referring to switch blocking.

Hibbing.**Railroad Switch Yards:**

Two orders referring to switch blocking.

Winton.**Saw Mill:**

Keep on file certificates for boys under 16.

Ely.**Railroad Switch Yards:**

Replace all bad and missing foot blocks with new ones.

Tower.**Saw Mill:**

Keep on file certificates for boys under 16 years.

Railroad Switch Yards:

Two orders referring to switch blocking.

Two Harbors.**Railroad Switch Yards:**

Replace all bad and missing foot blocks with new ones.

Scanlon.**Railroad Switch Yards:**

Replace all bad and missing foot blocks with new ones.

Carlton.**Railroad Switch Yards:**

Three orders referring to switch blocking.

Fosston.**Railroad Switch Yards:**

Replace all bad and missing foot blocks with new ones.

Bemidji:

Planing Mill:

Do not employ boys under 16 years of age at or around any dangerous machines.

Railroad Switch Yards:

Three orders referring to switch blocking.

Deer River.

Railroad Switch Yards:

Two orders referring to switch blocking.

Akeley.

Railroad Switch Yards:

Replace all bad and missing foot blocks with new ones.

Cass Lake.

Saw Mill:

Discharge all boys under 16 years of age employed in lath mill.—Complied.

Railroad Switch Yards:

Replace all bad and missing foot blocks with new ones.

Park Rapids.

Railroad Switch Yards:

Replace all bad and missing foot blocks with new ones.

Grand Rapids.

Railroad Switch Yards:

Replace all bad and missing foot blocks with new ones.

Cloquet.

Railroad Switch Yards:

Three orders referring to switch blocking.—Complied.

Aitkin.

Railroad Switch Yards:

Replace all bad and missing foot blocks with new ones.—Complied.

ACCIDENTS

TABLE IA.—Accident Reports for Ten Months, from October, 1904, to August, 1905.

Nature of Injury	1904			1905								Total
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July		
Killed or injuries resulting in death.....	6	4	3	5	4	5	7	15	6	5	68	
Skull fractured						3		1	1		5	
Scalp torn off	3	3	4	2	1	1	4	4		5	27	
Head or face cut.....	3	1	6	2		3	3	1			24	
Head or face bruised, burned or scalded..	3	2	4	1	6	2	2	4	5	2	39	
Body bruised					1						1	
Body scalded or burned.....					1						1	
Spine fractured			1			1					2	
Ribs fractured	3		2	1		1	2	1	2	1	13	
Collarbone broken			1		1						2	
Shoulder dislocated		1		1		1	1	1			5	
Eye or eyes injured.....	2	2	1	4	5	2	3	8	5	3	35	
Object in eye	12	4	5	1	1	6	3	2	1	2	38	
Arm cut off or crushed, requiring amputation	1		1								2	
Arm fractured	1		1	1		3	2	2			10	
Arm bruised, burned, scalded or otherwise injured	1	4	2	1	6	3	4	2	3	2	28	
Hand cut off or crushed, requiring amputation	1	1	1				1				5	
Hand fractured											1	
Hand cut, bruised, burned, scalded or otherwise injured	12	8	7	5	6	3	6	7	3	6	68	
Fingers cut off or crushed, requiring amputation	5	7	6	5	3	6	7	7	5	4	55	
Fingers cut, bruised, burned, scalded or otherwise injured	18	24	18	12	18	20	19	18	18	17	182	
Leg cut off or crushed, requiring amputation			1								1	
Leg fractured	2			4	1	3	2	2	1		15	
Leg cut, bruised, burned, scalded or otherwise injured	2	3	3	6	5	2	4	2	7	2	38	
Thigh fractured								1			1	
Foot cut off or crushed, requiring amputation				1	1	1				1	4	
Foot fractured	1							1			2	
Foot cut, bruised, burned, scalded or otherwise injured	3	3	3	3	4	3	1	4	3	3	30	
Toes cut off or crushed, requiring amputation	1				2			2		4	9	
Toes cut, bruised, burned, scalded or otherwise injured	1	1	2		2	1	4	1	1		13	
Wrist sprained		2	1		1	2	3	1			7	
Ankle sprained	2	2	1		2				2	3	12	
Internal injury				1	1	2					4	
Nature and extent of injury not stated.....	1	1	2		1		4	3	6	2	20	
Total	84	73	76	56	72	73	82	90	71	68	765	

TABLE IB.—Accident Reports for Twelve Months, from August, 1905, to August, 1906.

Nature of Injury	1905					1906							Total
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
Killed or injuries resulting in death	5	2	5	3	1	4	1	....	2	2	12	3	40
Skull fractured	1	....	1	....	1	....	....	....	....	....	....	....	3
Scalp torn off	....	1	....	....	....	....	....	....	....	....	....	....	1
Head or face cut	3	6	4	4	3	....	....	....	....	....	....	....	20
Head or face bruised, burned, or scalded	3	1	....	4	1	7	6	4	6	6	8	6	52
Body bruised	2	5	5	6	3	4	....	....	....	....	....	....	33
Body scalded or burned	....	....	....	1	....	....	14	9	9	9	7	....	49
Spine fractured	....	....	....	....	....	....	....	....	....	....	....	....	....
Ribs fractured	....	1	1	....	1	....	....	....	1	1	....	....	6
Collarbone broken	....	....	....	1	....	....	....	....	....	....	....	....	1
Shoulder dislocated	....	1	1	....	....	....	....	....	....	....	....	....	2
Eye or eyes injured	6	6	2	4	1	4	....	2	2	2	1	6	48
Object in eye	4	3	6	5	3	4	6	6	7	7	6	16	73
Arm cut off or crushed, requiring amputation	....	1	1	....	....	1	1	....	....	2	....	....	4
Arm fractured	1	2	....	....	1	....	1	4	....	....	4	....	13
Arm, bruised, burned, scalded or otherwise injured	4	4	5	2	....	2	4	....	2	....	....	4	27
Hand cut off or crushed, requiring amputation	....	....	....	....	....	....	....	....	....	....	1	1	2
Hand fractured	....	....	....	....	....	....	....	....	....	....	....	....	....
Hand cut, bruised, burned, scalded or otherwise injured	10	5	6	2	5	3	....	8	7	7	3	13	69
Fingers cut off or crushed, requiring amputation	3	5	3	1	1	....	....	....	3	3	1	....	20
Fingers cut, bruised, burned, scalded or otherwise injured	19	15	9	13	22	20	13	26	28	28	20	34	247
Leg cut off or crushed, requiring amputation	....	....	....	....	....	....	....	....	....	....	....	....	....
Leg fractured	....	1	3	1	1	....	....	....	....	....	....	....	6
Leg cut, bruised, burned, scalded or otherwise injured	2	3	2	4	3	7	1	8	....	....	6	11	47
Thigh fractured	....	2	....	....	....	....	....	....	....	....	....	....	2
Foot cut off or crushed, requiring amputation	....	2	....	....	....	....	....	....	....	....	....	1	3
Foot fractured	....	1	....	1	....	....	....	....	....	....	....	....	2
Foot cut, bruised, burned, scalded or otherwise injured	2	4	3	4	3	3	7	6	7	7	10	8	64
Toes cut off or crushed, requiring amputation	....	....	....	....	....	....	....	....	....	....	....	....	....
Toes cut, bruised, burned, scalded or otherwise injured	....	1	3	....	1	1	2	7	2	2	8	2	29
Wrist sprained	....	1	....	....	4	2	2	....	....	....	2	5	16
Ankle sprained	....	2	....	3	1	1	2	3	....	....	3	1	16
Internal injury	....	5	....	1	....	....	....	....	....	....	....	....	6
Nature and extent of injury not stated	....	1	3	1	5	....	2	3	3	3	1	5	27
Total	65	79	63	61	62	62	62	86	85	85	93	124	927

TABLE II A.—Accident Reports for Ten Months, from October, 1904, to August, 1905, Showing Industry in Which Accident Occurred and Number of Injured.

Manufactory	1904			1905							Total
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
Bag factory		1								1	2
Blast furnace			2				1	1			3
Brewery						1					1
Brick yard							2				2
Canning factory					3						3
Chemical works						1					1
Confectionery			1				1			1	3
Creamery											
Docks—coal		1	1	1							3
Docks—ore						4					4
Electric power plant						2					2
Flour mill	1	2	10	6	2	3	2	11	5	1	35
Furniture factory	2		1			1	1	2	1		8
Grain elevator			1					1	1		3
Knitting works							1				1
Laundry			1		3		2				6
Machine shop and foundry	4	10	1	4							19
Mercantile establishment						1	4				5
Mining	7	3	1	8	2	1	5	7	5		29
Paper mill				3	1	1		1			6
Plating works	1	2	1			1		2	4	1	12
Printing establishment											
Railroad work—construction and operation	10	5	6	4	6	4	10	18	14	11	88
Railroad work—shops	14	7	13	5	9	9	6	11	16	20	118
Sash, door and blind factory	11	16	10	3	11	16	11	4	2	1	88
Saw mill	18	5	7	3	5	3	11	12	5	17	86
Slaughter house and meat packing	14	17	18	19	17	13	9	7	7	4	128
Street railway work—shop											
Stone quarry			1	1				2	1	1	6
Tinware factory									1		1
Twine factory						4		1			5
Woodworking establishment	2	3	1			4	4		4	8	26
Woolen mill					1	2					3
Wagon and carriage shop		1									1
Non-manufacturing establishments											
Total	84	73	76	56	72	73	82	90	71	68	745

TABLE II B.—Accident Reports for Twelve Months, from August, 1905, to August 1906, Showing Industry in Which Accident Occurred and Number of Injured.

Manufactory	1905					1906							Total
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
Boots and shoes.....												1	1
Bag factory											1		1
Blast furnace	3	2				3	2				4		9
Brewery		1											1
Brick yard		1											1
Canning factory		1											1
Chemical works													
Confectionery	1	1	1	1					1	1		2	8
Creamery													
Docks—coal												2	2
Docks—ore													
Electric power plant													
Flour mill	3	9	8	4	3	3	2	3	4	4	2	5	50
Furniture factory		1						4			2	1	8
Grain elevator	1						1						2
Knitting works													
Laundry			1	1	1		1		1	1			6
Machine shop and foundry.....	1	6	3	7	7	6	5	18	17	17	6	17	110
Mercantile establishment		1											1
Mining	2		1	1		2			1	1	8	1	17
Paper mill	1		1		1	2	2						7
Plating works													
Printing establishment		3	3		3	1		3			3	2	18
Railroad work—construction and operation.....	3	11	4	12	6	2	10	9	4	4	16	13	94
Railroad work—shops	17	18	17	14	22	24	14	21	37	37	16	30	267
Sash, door and blind factory.....	4	2			1	1	2	1			3	1	15
Saw mill	12	9	17	10	10	3	16	16	15	15	23	35	181
Slaughter house and meat packing.....	13	7	4	9	7	11	6	6	1	1	1	10	76
Street railway work—shop.....		4											4
Stone quarry					1			1			1		3
Tinware factory						1							1
Twine factory													
Woodworking establishment	4	5	2	1	1	3		4	4	4	6	3	37
Woolen mill	1						1					1	3
Wagon and carriage shop	2		1										3
Non-manufacturing establishment.....											1		1
Total	65	79	63	61	62	62	62	86	85	85	93	124	927

TABLE III A.—Accident Reports for Ten Months, from October, 1904, to August, 1905, Showing Age of Injured.

Age of Injured	1904			1905							Total
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
Under 16 years of age.....	1	...	...	...	...	12	1	...	12	33	9
16 years of age.....	...	12	1	1	2	12	4	1	12	32	21
17 years of age.....	3	3	3	2	2	3	3	3	3	3	30
18 years of age.....	3	1	2	2	2	3	6	5	5	6	31
19 to 20 years of age.....	1	8	12	4	9	9	9	5	9	6	62
21 to 25 years of age.....	22	18	12	10	14	12	8	15	10	6	127
26 to 30 years of age.....	17	14	13	10	11	4	12	15	5	8	109
31 to 35 years of age.....	10	5	13	7	12	4	8	5	6	8	78
36 to 40 years of age.....	7	2	3	5	5	7	5	7	7	4	52
41 to 45 years of age.....	5	6	8	...	4	5	7	4	4	10	53
46 to 50 years of age.....	6	3	5	2	...	7	6	7	5	3	44
51 to 55 years of age.....	2	3	1	2	2	2	2	1	...	3	18
56 to 60 years of age.....	1	1	1	...	1	...	1	...	...	2	8
Over 60 years of age.....	1	1	...	1	1	...	...	3	3	1	10
Age not given	5	6	12	10	3	11	10	18	11	7	93
Total	84	73	76	56	72	73	82	90	71	68	745

TABLE III B.—Accident Reports for Twelve Months, from August, 1905, to August, 1906, Showing Age of Injured.

Age of Injured	1905					1906							Total
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
Under 16 years.....	...	...	1	...	...	1	...	...	...	12	12	...	6
16 years.....	3	5	1	2	1	2	1	3	12	1	3	4	28
17 years.....	3	5	3	1	12	2	1	3	4	3	1	4	32
18 years.....	...	3	2	2	12	1	1	1	7	4	4	3	31
19 to 20 years.....	5	4	9	5	4	6	2	7	5	7	5	10	69
21 to 25 years.....	14	13	12	10	8	10	12	18	18	17	23	26	187
26 to 30 years.....	12	8	6	11	15	11	12	14	11	10	14	17	141
31 to 35 years.....	6	12	2	7	4	1	6	11	8	13	4	11	85
36 to 40 years.....	3	6	1	8	8	6	7	7	8	6	11	7	78
41 to 45 years.....	3	6	6	4	7	8	4	4	9	9	9	9	76
46 to 50 years.....	5	3	5	4	1	5	7	8	5	9	12	6	66
51 to 55 years.....	4	3	...	3	1	3	3	1	1	3	3	4	28
56 to 60 years.....	...	...	1	1	3	...	...	2	2	1	3	3	18
Over 60 years.....	...	12	2	...	...	2	...	...	1	1	...	3	13
Age not given.....	5	9	12	3	6	4	5	5	4	1	4	11	69
Total	65	79	63	61	62	62	62	86	85	85	93	124	927

TABLE IV A.—Showing Industries in Which Fatal Accidents Occurred and Number of Victims During Each of Ten Months, from October, 1904, to August, 1905.

Industries and Occupations	1904			1905							Total
	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
Bag manufacturing						1				1	2
Chemical works					1						1
Confectionery factory						1					1
Flour milling		1							1		2
Grain cleaning and storing (elevators)			1						1		2
Logging	1		1								2
Machine shop and foundry work						1			1		2
Mining—ore	4	2		5	2		2	6	1		23
Ore loading—docks						1					1
Pulp and paper manufacturing						1					1
Railroad shop work										2	2
Railroad track work and operating		1			1		4	7	2	1	16
Sash, door and blind manufacturing and woodworking											
Slaughtering and meat packing	1						1			1	3
Saw mill work			1					1			2
Stone quarry and stone cutting			1								2
Twine manufacturing								1			1
Total	6	4	3	5	4	5	7	15	6	5	60

TABLE IV B.—Showing Industries in Which Fatal Accidents Occurred and Number of Victims During Each of Twelve Months, from August, 1905, to August, 1906.

Industries and Occupations	1905					1906							Total
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	
Bag manufacturing													
Chemical works											1		1
Confectionery factory												1	1
Flouring mill													
Grain cleaning and storing (elevators)	1												1
Logging													
Machine shop and foundry work			1			1							2
Mining—ore	2		1	1		2			1	1	7	1	16
Ore loading—docks													
Pulp and paper manufacturing													
Railroad shop work				1		1							2
Railroad track work and operating		2	1	1	1					1	1		7
Sash, door and blind manufacturing and wood-working	1										1		2
Slaughtering and meat packing			1								1		2
Saw mill work	1		1				1		1		1	1	6
Stone quarry and stone cutting													
Twine manufacturing													
Total	5	2	5	3	1	4	1		2	2	12	3	40

TABLE IV.—Accidents to Children 16 Years of Age and Under During Period from October 1, 1904, to August 1, 1906.

Industry or Trade	Child's		Extent and Value of Injury	Nature of Accident
	Sex	Age		
Bag factory	Girl	16	Head crushed, skull fractured.	Caught with head between press.
Bag factory	Girl	16	Finger crushed, requiring amputation.	Caught finger under press.
Bag factory	Boy	16	Arm bruised.	Falling.
Box factory—wooden boxes.....	Boy	16	Finger cut off and thumb lacerated.	Falling and striking rip saw.
Box factory—wooden boxes.....	Boy	16	Two fingers cut and lacerated.	Coming in contact with machine knives.
Box factory—wooden boxes.....	Boy	16	Finger cut off.	Contact with rip saw.
Box factory—wooden boxes.....	Boy	14	Arm crushed, broken and lacerated.	Caught under drive belt.
Box factory—wooden boxes.....	Boy	16	Thumb cut off.	Striking against rip saw.
Brick yard	Boy	16	Four fingers cut off.	Caught under brick press.
Brick yard	Boy	16	Finger crushed, requiring amputation.	Caught in gearing.
Confectionery factory	Girl	16	Hand crushed.	Caught hand in machine.
Confectionery factory	Girl	16	Foot crushed.	Struck by falling press.
Laundry	Boy	15	Finger cut off.	Caught foot under elevator.
Laundry	Boy	16	Scalp torn, head cut and bruised.	Caught finger under punch press.
Machine shop	Girl	16	Hand and fingers bruised and cut.	Caught hair in machine.
Paper mill	Boy	16	Thumb lacerated and cut.	Hand caught under drum.
Printing establishment	Girl	16	Finger crushed, requiring amputation.	Caught in machinery.
Printing establishment	Boy	16	Finger cut and bruised.	Caught finger in gear wheel.
Printing establishment	Boy	16	Finger crushed, requiring amputation.	Caught in Gordon press.
Printing establishment	Boy	15	Finger cut, requiring amputation.	Caught finger under press.
Printing establishment	Boy	16	Finger torn.	Caught under press.
Sash and door factory.....	Boy	15	Finger lacerated, requiring amputation.	Caught finger on nail.
Sash and door factory.....	Boy	16	Finger cut off.	Caught finger on jointer knives.
Sash and door factory.....	Boy	15	Hand injured.	Slipping finger onto relisher knife.
Sash and door factory.....	Boy	15	Eye slightly injured.	Dust entering eye.
Sash and door factory.....	Boy	15	Thumb cut off.	Slipping thumb onto jointer knives.
Sash and door factory.....	Boy	16	Finger cut.	Coming in contact with machine knife.
Railroad shop	Boy	15	Eye injured.	Hit in eye by babbitt chip.

Slaughtering and meat packing est.	Boy	16 Wound through arm.	Striking arm against fellow workman's knife.
Slaughtering and meat packing est.	Boy	16 Finger cut, resulting in blood poisoning.	Careless handling of knife.
Slaughtering and meat packing est.	Boy	16 Fingers bruised and bones broken.	Caught between rollers of printing press.
Saw mill	Boy	16 Finger lacerated.	Caught finger on spike.
Saw mill	Boy	16 Wrist cut off.	Caught finger under sprocket wheel.
Saw mill	Boy	16 Killed.	Striking wrist against revolving saw.
Saw mill	Boy	16 Arm broken.	Caught on revolving shaft.
Saw mill	Boy	16 Skull fractured, head and body bruised.	Falling.
Saw mill	Boy	16 Finger cut off.	Wound up on end of shaft.
Woolen mill	Boy	16 Two fingers crushed, requiring amputation.	Coming in contact with revolving saw.
Slaughtering and meat packing est.	Boy	16 Arm lacerated, bruised and broken.	Caught fingers in gearing.
Box factory—wooden boxes.	Boy	16 Head bruised and forehead cut.	Arm caught in pulley.
Confectionery	Boy	15 Thumb cut.	Struck by falling trolley.
Confectionery	Boy	16 Finger injured.	Cut on saw.
Horse shoers	Boy	16 Finger bruised.	Caught in chain.
Laundry	Girl	16 Finger torn off below first joint.	Caught between shaft and bar of wood.
Machine shop and foundry	Boy	16 Back of hand burned.	Not stated.
Mining—ore	Boy	16 Toe crushed.	Burned with boiling water.
Printing establishment	Boy	15 Killed.	Wheel fell on foot.
Railroad shop	Boy	16 Foot injured.	Crushed between two engines.
Railroad shop	Boy	16 Finger nail injured.	Working on a press.
Railroad shop	Boy	15 Face cut.	Struck by falling iron.
Sash and door factory	Boy	16 Body bruised.	Caught under heavy object.
Sash and door factory	Boy	15 Hand cut.	Knocking rivets off a tank.
Saw mill	Boy	16 Thumb unjointed.	Fell from moving elevator.
Saw mill	Boy	16 Heel bruised.	Caught in roller.
Saw mill	Boy	14 Head cut.	Taking a silver from saw.
Saw mill	Boy	16 Toe cut.	Pushing cant on rollers.
Threshing machines	Boy	16 Wrist bruised.	Fell off a platform.
Woodworking establishment	Boy	16 End of thumb cut off.	Cut with ax.
Woodworking establishment	Boy	16 Hand cut.	Caught sleeve in drill.
Woodworking establishment	Boy	16 Fingers injured.	Caught in machine.
	Boy		Cut by saw.
	Boy		Caught on rip saw.

CHILD LABOR IN MINNESOTA

CHILD LABOR IN MINNESOTA (*)

(*) This report has been published in pamphlet form in the fall of 1906.

One of the functions of the State Bureau of Labor is the enforcement of the laws regulating the employment of children.

An investigation conducted by this department during the school session, last passed, for the purpose of ascertaining the exact extent of child labor in the state has brought out the fact that much misunderstanding exists as to the meaning and object of the child labor regulations; that instances are not few where school superintendents have hopelessly mixed the educational laws and those referring to child employment. Evidence has come to light showing that in some city and country school districts the educational board, or the school superintendent, has given but passing attention to the strict enforcement of educational laws and none at all to child labor laws.

Child labor laws have been enacted to discourage rather than foster the habit of employing children of school age at manual labor for gain. Incidentally they are helping along the educational provisions in their aim to secure every child of this commonwealth an education and opportunity for physical and mental development. Two official bodies in this state have to deal with and look after such children of school age, who are deprived of the golden privilege of childhood and for special reasons are forced to join the great army of wage-earners, while their schoolmates and comrades are enjoying liberty and freedom from care and workshop regulations.

The board of education or the school superintendent have been vested with authority to give to the child the employment permit which, under certain conditions, will sanction the employment of the child.

Through its officials the Bureau of Labor looks to it that such employers of children do their part and live up to the requirements of the law.

To reach the purpose for which the laws was intended, it is therefore necessary that both official bodies work in harmony and full understanding. The old child labor law, as contained in Chapter 171, General Laws of 1895 (amended in 1897), has been very difficult to understand, thereby allowing various constructions.

A letter, recently received by this department from Hon. Charles S. Jelley, special counsel of the attorney general's office, says on this subject: "Owing to the many glaring inconsistencies and palpable contradictions apparent in the act, the real meaning and intention of the law are clouded with an almost impenetrable **obscurity, and a clear interpretation** of the same is very difficult, if not impossible, the result being that an **opinion given after** the most careful study might be one that would not be reached by **others** after equally exhaustive examination."

The revised law as contained in the report of the revision commission, and which, without amendment, has been adopted by the legislative session of 1905, becoming effective in March, 1906, is much plainer and more concise in language.

It forms part of the Regulation of Labor, Chapter 23, and embraces Sections 1804 to 1812. The text is as follows:

SECTION 1804. EMPLOYMENT OF CHILDREN—HOURS.—No child under fourteen years of age shall be employed at any time in any factory or workshop or about any mine; nor shall he be employed in any mercantile establishment, or in the service of a telegraph, telephone or messenger company, except during the vacation of the public schools. No child under sixteen shall be employed at any time in an occupation dangerous to life, health, or morals, or at any labor, outside of the family in which he resides, before 6 o'clock in the morning, or after 7 in the evening. Nor shall he be so employed for more than ten hours in any day, or sixty hours in any week; except that on Saturdays and for ten days prior to Christmas he may be so employed until 10 o'clock in the evening, but not longer in any day or week than the hours aforesaid.

SECTION 1805. PHYSICIAN'S CERTIFICATE.—In the case of any child appearing to be unable to perform the labor at which he is employed, any member or employe of the Bureau of Labor may require the employer to produce a certificate from some reputable practicing physician of the physical fitness of the child for such work. And a child as to whom such certificate cannot be obtained shall not be employed.

SECTION 1806. OPERATING ELEVATORS—AGE LIMIT.—No person shall employ or permit any child under the age of sixteen years to have the care, management, or operation of any elevator, or permit any minor under eighteen years to manage or operate any elevator capable of running over two hundred feet per minute.

SECTION 1807. CHILDREN NOT TO BE EMPLOYED, WHEN.—Except as provided in the following section, no child under sixteen years of age shall work for hire during the hours in which the public schools in the place of his residence are in session, unless since his last birthday he shall have attended school at least twelve weeks, six of them in succession; nor shall he be so hired at any indoor occupation, except in vacation of the public schools, or while he is a daily attendant at some day or evening school, unless he can read and write simple sentences in English.

SECTION 1808. WHEN LABOR IS NECESSARY FOR SUPPORT.—Whenever it appears upon investigation that the labor of a minor, who would be debarred from employment under the provisions of the preceding section, is necessary for his support, or that of the family to which he belongs, the school board or school trustees of the place where he resides may issue a permit authorizing his employment within **certain hours** to be fixed therein.

SECTION 1809. CERTIFICATE—WHEN NECESSARY.—No child under sixteen years shall be employed in any factory, workshop, or mercantile establishment, or in the service of any public telegraph, telephone, district messenger company, or other like corporation, unless the employer shall keep on file the certificate herein required, and a complete list of such employes. Such certificate shall be executed by the school superintendent, where there is one, or by some person authorized by him in writing; elsewhere, by a member of the school board, authorized so to do by its vote. It shall state the name, date and place of birth, and age of the child, and that he can read at sight, and write in legible hand, simple English sentences; or that he is a regular attendant at some school, or during the past twelve months has attended school as required by law, or has been lawfully excused therefrom. Attendance at a private school shall be certified to by the teacher thereof on this certificate. The Labor Commissioner shall prepare and furnish to school superintendents and boards the necessary blanks.

SECTION 1810. RIGHT OF VISITATION.—Every factory, workshop, mine, mercantile establishment, or other place in or in connection with which children are engaged at labor of any kind shall at all times be subject to visitation by the members or agents of the board of education, or by the governing body of the municipality in which such place of labor is situated.

SECTION 1811. PENALTY FOR VIOLATION.—Every parent or guardian of a child under sixteen years of age who shall permit the employment of such child contrary to the provisions of this chapter, and every owner, superintendent, or overseer of any place of labor who shall employ or permit to be employed therein any child contrary to said provisions, or who shall refuse to allow the visitation permitted by law, shall be guilty of a misdemeanor. Failure to produce to any officer or employe of the Bureau of Labor, or member or authorized agent of a school board or governing body of the city or district in which such child is employed, on demand, the certificate and list required by law to be kept, shall be prima facie evidence of illegal employment.

SECTION 1812. WAGES OF MINORS—TO WHOM PAID.—Any parent or guardian claiming the wages of a minor in service shall so notify his employer, and if he fail so to do, payment to the minor of wages so earned shall be valid.

The interpretation of the foregoing provisions by the Bureau of Labor is as follows:

The employment of any child under fourteen years of age, at any time, in any factory, workshop, or about any mine is contrary to law, and employment certificates issued by school superintendents to such children will not be recognized by the officers of this department.

Children under fourteen years of age are not permitted to be employed in mercantile establishments, or in the service of a telegraph, telephone or messenger service company, except during the vacation of the public schools. Children over fourteen but under sixteen years of age may be employed at any occupation, provided such employment is not dangerous to life, health or morals. The department has construed this provision to mean that such child must not be employed at or in the operation of any machinery, such as saws, shapers, jointers and other high-speed machinery in wood-working establishments, printing or embossing presses, and similarly dangerous machinery. A child of such age, however, may be employed in manufacturing establishments as a helper to any person operating machinery. The factory inspectors finding such children employed in places where there is danger to the life, health or morals of the child, will take the employment permit and order the discharge of the child. No child must be employed before six o'clock in the morning or after seven in the evening.

This provision excludes all night work for children, and any child found employed at night work will be ordered discharged and the permit revoked. Provisions having been made that children may be employed until 10 o'clock in the evening, on Saturdays and for ten days prior to Christmas, but the employment must be so arranged that the child will not work for more than ten hours in any one day.

Employers of children at all times must keep on file the employment certificate required by law. This does not exclude the time of vacation of the schools. The permit must be kept on file at all times. Employment permits issued by school superintendents, or their delegates, must be on forms provided for this purpose by the Commissioner of Labor, and no other form or private letter will be recognized as such by this department.

From the records on file in the Labor Bureau it is seen that school superintendents frequently grant employment certificates to children under fourteen years of age. It is the belief of this department that such officials take their authority for this from the

educational acts, which provide that the superintendent for certain reasons may excuse a child from school attendance, but this does not carry the permission that the child may work on such school excuse.

Children who have fulfilled the requirements of the law as to school attendance during the school year are entitled to an employment permit, which is good during the time of vacation. It is not a matter of choice with the superintendent, whether he shall issue this certificate or not. Children employed during vacation at some outdoor work, so long as such occupation is not in a factory, workshop, about a mine, in a mercantile establishment, or in the service of a telegraph, telephone or public messenger company, are not required to have an employment permit for such work and time; and it is wrong and not within the meaning of the law, as has been the case in instances reported to this department, that children during vacation have been prohibited from picking berries, it being held that first they must secure an employment permit.

The child labor law provides as a condition to the granting of an employment certificate to any child during the time of the session of the schools, that an investigation be had as to whether the child's labor be necessary for his own support or that of the family to which he belongs. This provision is a bone of contention with the labor bureau, for it is of the opinion that school districts where this provision is carefully carried out, are in the minority. There are, however, some notable exceptions.

Employment permits have been given by some school officers for very frivolous reasons, the department being in possession of a collection of statements to the effect that the child did not want to go to school; or that the parent could not make him go to school, have been given as reasons. Or it has been stated that the child was too troublesome in school, or that he was lazy and could not get along with the teacher. Certificates have been issued where the officer states as his belief that the parents could well afford to send the child to school; that in his opinion the child was not entitled to such permit, yet for convenience he himself issued the permit. Other school superintendents have stated that they never have given any attention to the law; that they have been aware that some of the children of their districts were at work, but that it was their opinion that public sentiment in their locality was against enforcement of such laws. Employment permits have been issued to children because their health was too poor to go to school. Here indeed is a very poor excuse offered. The health of a child being

too poor to attend a well ventilated school room for five hours during five days of the week, but his health was not considered too poor to toil in an overcrowded department store or a noisy factory for ten hours each of the six days of the week.

What we need in this state is a better understanding of the intentions of the child labor law; more uniformity in its enforcement and a better co-operation of the different official bodies charged with the execution of the act.

As far as the records permit us to draw conclusions it is observed that but a very small percentage of the children took up an occupation that was leading in an upward direction, or an apprenticeship to a useful trade. In most instances the primary object has been to earn a few dollars. It was more like looking for an immediate return from the labor of the child than laying a foundation for later usefulness. Some of the reasons given why the child received an employment permit are quite pathetic; they tell a story of early troubles and mishaps in the life of the child. One happy exception may be noted from the city of St. Paul. There a boy not yet sixteen years of age held the position of clerk in a railroad office and getting a salary for which many a person of mature age might have envied the youngster.

The table annexed shows the child labor reports throughout the state for the period of years from 1899-1904. The corresponding figures for the year 1905 are not completed so could not be given. The reports indicate that for the state there has been a steady decline in the number of children found employed during late years. If we compare the number presented with the number of employment permits issued during the last school year we must come to the conclusion that there is a defect somewhere; as the two statements do not correspond. The department can only make an attempt at an explanation, there being no intimate connection between the official body that grants permits and that which looks after the children while they are at work. The superintendents of schools and the Labor Bureau should be united in this work.

An effective child labor law should go further than does the Minnesota law. Superintendents of schools should report to the Bureau of Labor at certain periods the names of all children by them permitted to work, as well as the place and name of the employer. This implies that no permit should be given to any child if he fails to show that he may have a place to work after securing the permit. Employers of children should be required to have all labor permits first recorded and countersigned by the Bureau of Labor or the factory inspector. A child leaving the service of an

employer should have his certificate returned to him and due record of such changes in employment should be required to be made in the office of the Commissioner of Labor or the factory inspector. Under such conditions there would be a continual record of the child, from the time he leaves school until he attains the age which frees him from further control.

In the cities of St. Paul and Minneapolis the number of children reported by the factory inspectors for the year 1904 only represent a fraction of the number of permits issued during the last school year, but there is no record to show if all these children have been employed and where they have been employed. The Labor Bureau is aware that there is a constant changing of children going on. Some industries need the service of children during certain weeks or months of the year only, and afterwards the children are discharged. They either go back to school, or they may drift into some places out of the reach of the factory inspectors, or worse than that they may drift onto the street, becoming tramps.

That there is a constant change in the employment of children appears to the department from the following fact: From a department store is shown an average of 13 children employed during the year. The department had this place checked up three times during the year, each time taking a complete record of all children employed there. It was found that during the nine months covered by this period 39 children had been employed, but just as fast as one child left, or was discharged, another child took his place. This also goes to show the comparative ease with which in some localities parents may secure employment permits for their children.

It will furthermore be seen from the table that from other cities and towns of the state there was reported some child labor in former years, in some towns even to considerable extent, yet no permits have been issued by the superintendents during the last school year. It is hard to believe that a reform wave has suddenly struck these towns.

The question is appropriate: What can be done to secure better results, and furnish the means of showing without any doubt the true extent of child labor in our state? This is a fit subject for consideration by all persons interested in the welfare of our state and the education of our children. Educational laws and child labor laws are intimately related. The compulsory education laws of the State of Minnesota now form part of Chapter 14 of the Revised Laws of 1905.

Section 1 of Chapter 226, General Laws of 1899, having been amended by an act of the legislative session of 1905, the law now reads as follows:

SECTION 1. Every parent, guardian or other person who resides in any school district or city, and who has control of any child or children of or between the ages of eight and eighteen years, shall send such child or children to a public, parochial or private school in each year during the entire time the public schools of such district or city are in session. Provided, however, that such child or children may be excused from such attendance for the whole or any part of such period by the school board or board of education of the school district or city in which such parent, guardian or person having control resides, upon its being shown to the satisfaction of such board—

(1) That such parent, guardian or other person having control is not able by reason of poverty to clothe such child properly; or (2) that such child's bodily or mental condition is such as to prevent his attendance at school or application to study for the period required; or (3) that such child is taught at home in such branches of study as are usually taught in public schools, subject to the same examination as other pupils of such district or city; or (4) that such child has already acquired the ordinary branches required by law; or (5) that such child is actually engaged in some useful occupation, employment or service permitted by law.

SECTION 168. TRUANT OFFICERS.—The board of any district may appoint and remove at pleasure truant officers, who shall investigate all cases of truancy or non-attendance at school, make complaints, serve notices and process and attend to the enforcement of all laws and school regulations respecting truant, incorrigible, and disorderly children, and school attendance. Whenever any truant officer learns of any case of habitual truancy or continued non-attendance of any child hereby required to attend school, he shall immediately notify the person having control of such child to forthwith send to and keep him in school. He may arrest without warrant and take to school any such child, and shall act under the general supervision of the board, or, when directed by the board, under that of the city or district superintendent. Such officers shall receive a salary, fixed by the board appointing them, but no fees.

SECTION 171. PENALTY.—Any person who shall fail or refuse to send to or keep in school any child of whom he has legal charge or control, and who is required by law to attend school, when notified by the truant officer so to do, and any person who induces or attempts to induce any such child unlawfully to absent himself from school, or who knowingly harbors or employs, while school is in session, any child unlawfully absent from school, shall be guilty of a misdemeanor and shall be punished by a fine not to exceed \$50.00 or by imprisonment in the county jail for not more than thirty days. All such fines, when collected, shall be paid into the county treasury for the benefit of the school district in which such offense is committed.

Table 1a contains a full report in detail of all employment permits issued during the school year of 1904 to 1905 by the superintendent of schools of the city of St. Paul. The name of the child, its age when leaving school, the grade the child last attended and the date of the employment permit was intended to be shown from the permits. Further it was considered to be of importance to show the kind of employment the child was to take up, the reason for which the permit was granted and such general remarks as the superintendent could make, bearing on each individual case. Table 1b and 1c contain the same data for the cities of Minneapolis and Duluth, respectively, and table 1d shows similar records from other cities and towns in the state.

Table 2 contains a general review of table 1, showing number of employment permits issued in the specified cities and towns of the state during the school year 1904 to 1905 and the number of children found employed in each of these cities and towns by the factory inspectors in each year of the period from 1899 to 1904.

TABLE I (a)—Showing Child Labor Permits Issued in St. Paul During the School Year 1904-1905.

Name of Child	Age when leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to Take up	Reason for Granting Permit (*)	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Ernest Johnson.....	15	6	.....	1.24.05	Messenger boy.	1	7.1.05	.....	.....	.....
Walter Werner.....	15	6	.....	9.16.04	Office boy.	1	3.20.05	.....	.....	.....
Geo. Bolner.....	15	3	.....	9.14.04	Messenger boy.	1	2.1.05	.....	.....	.....
Henry Lithert.....	14	7	.....	1.11.05	.....	1	9.1.05	.....	.....	.....
Anthony Gebis.....	15	8	.....	2.11.05	Helper in shoe factory.	1	No record	.....	.....	.....
Albert Rickers.....	15	6	.....	2.3.05	Works in glove factory.	1	8.24.05	.....	.....	.....
John Huldeen.....	15	1	.....	10.10.04	Helper in wholesale house	1	9.13.05	.....	.....	.....
George Nelson.....	15	2	.....	1.26.05	Office boy.	1	11.11.05	.....	.....	.....
Rudolph Lutgens.....	15	10	.....	2.27.05	.....	1	4.28.05	.....	.....	.....
Rosa Schmitz.....	15	5	.....	4.1.05	Work in paper box factory	1	7.1.05	.....	.....	.....
Veronica Maier.....	15	11	.....	1.30.05	.....	1	7.1.05	.....	.....	.....
Oscar Post.....	15	6	.....	1.20.05	.....	1	7.1.05	.....	.....	.....
Tilly Gerkens.....	15	4	.....	4.1.05	.....	1	7.1.05	.....	.....	.....
Isabel Seignemartin.....	15	10	.....	4.18.05	.....	1	7.1.05	.....	.....	.....
Jos. Pampusch.....	15	4	.....	9.13.04	Office boy.	4	4.05	.....	.....	.....
Robt. Drumm.....	15	4	.....	1.27.05	.....	1	3.1.05	.....	.....	.....
Henry Cedarholm.....	15	1	.....	9.22.05	.....	1	9.05	.....	.....	.....
Edw. P. Jackson.....	14	6	.....	9.9.04	.....	1	3.1.05	.....	.....	.....
Victor Dahlstrom.....	14	4	.....	1.31.05	Errand boy.	4	9.05	.....	.....	.....
Geo. R. Elter.....	14	9	5 Gr.	1.27.05	.....	1	3.1.05	Extended.	.....	7.1.05
Al. Pankonin.....	14	3	.....	4.11.05	Apprentice, cigar factory	1	9.1.05	.....	.....	.....
Jas. Olsen.....	15	6	.....	10.31.04	.....	1	4.1.05	.....	.....	.....
Chas. Moritz.....	15	7	.....	2.8.05	.....	1	7.1.05	.....	.....	.....
Albert Fittlekow.....	15	9	.....	4.12.05	.....	1	7.16.05	.....	.....	.....
Mildred Schneider.....	14	8	.....	9.11.04	Work in bookbinding.	1	9.10.05	.....	.....	.....
Margaret Weber.....	15	8	.....	4.11.05	.....	1	7.10.05	.....	.....	.....
Anna Blessenbach.....	15	1	.....	3.4.05	.....	1	7.1.05	.....	.....	.....
Robt. Johnson.....	14	5	.....	12.13.04	Errand boy.	1	2.1.05	.....	.....	.....
Stella Ellis.....	14	7	.....	11.2.04	.....	1	9.1.05	.....	.....	.....
Eleonor Hasselberg.....	14	6	.....	10.24.04	.....	1	6.1.05	.....	.....	.....
Mary Hiller.....	14	7	.....	11.5.04	.....	1	4.1.05	.....	.....	.....
Mary Dvorak.....	14	5	.....	1.05	.....	1	9.1.05	.....	.....	.....
Jennie Rudolph.....	14	8	.....	1.9.05	.....	1	4.1.05	.....	.....	.....
Annie O'Toole.....	15	7	.....	2.25.05	.....	4	7.4.05	.....	.....	.....
Mary Stewart.....	15	5	.....	1.10.05	.....	1	4.1.05	.....	.....	.....
Eleanor Cadden.....	15	1	.....	1.31.05	.....	1	4.05	.....	.....	.....

15	Katie Hamper.....	3. 7.05	"	1	6. 1.05	..	..
14	Chas. Lindorfer.....	2. 4.05	Work in shoe factory.	1	9. 1.05	..	..
15	Bertha Seltz.....	2. 3.05	"	1	7.31.05	..	..
15	Frank Michael.....	2. 20.05	"	1	9.11.05	..	..
15	Brown Tienteck.....	2. 23.05	"	1	7.18.05	..	..
14	Geo. Etel.....	12.12.04	"	1	3. 1.05	..	..
15	Frank Sitzmann.....	9.10.04	"	1	4. 1.05	..	..
14	John Seidel.....	3.19.04	"	1	3. 1.05	..	..
15	Albert Gross.....	4. 5.04	"	1	2.11.05	..	..
15	Geo. Snelder.....	9.12.04	"	1	2. 1.05	Extended.	10.12.05
15	Wm. Peter.....	9. 8.04	"	1	2. 1.05	Extended.	4. 1.05
15	Steven Sullor.....	9. 8.04	"	1	2. 1.05	Extended.	3. 1.05
15	James Sullivan.....	9.30.04	"	1	1. 1.05	Extended.	9. 1.05
13	Catherine Fabawa.....	9.17.04	"	1	1. 1.05	Extended	..
14	Bertha Miller.....	9. 3.04	Work in shoe factory.	1	1. 1.05	Extended	9. 1.05
13	Frank Lucer.....	9. 3.04	"	1	1. 1.05	Extended	4. 9.05
15	Frank Antort.....	9. 3.04	"	1	2. 1.05	Attends night school, permit extended.	..
14	Frank Mozurkowitz.....	10.14.04	"	1	1. 1.05	..	3. 2.05
15	Anna Treethin.....	9. 3.04	"	1	1. 1.05	..	..
14	Frank Karr.....	4.19.04	"	1	1. 1.05	..	..
14	Agnes Shepanick.....	11. 2.04	"	1	3. 1.05	..	..
15	Conrad Fink.....	1. 4.05	"	1	6. 1.05	..	..
14	John Takulski.....	10.15.04	Stripper in cigar factory.	1	3. 2.05	Extended	..
14	Gust. Johnson.....	9.17.04	"	1	2. 1.05	Extended	4. 1.05
13	Etta Kreiger.....	11. 7.04	"	1	No date	Extended	4. 1.05
14	Lawrence Tschida.....	9. 7.04	Work in tinware factory.	1	2. 1.05	..	..
14	Therese Schwegelhofer.....	9. 8.04	"	1	2. 1.05	..	..
14	Michael Stumpf.....	9.10.04	"	1	4. 1.05	Extended	7. 1.05
15	Helena Teurling.....	9. 7.04	"	1	2. 1.05	..	..
15	Ester Anderson.....	9. 9.04	"	4	4. 1.05	..	..
15	Patrick Gaughan.....	10.27.04	"	1	4. 1.05	..	..
15	Lawrence Kelly.....	1.11.05	"	1	2. 3.05	..	..
14	John Sullivan.....	10. 4.04	"	1	4. 1.05	..	..
15	John Richardson.....	9.10.04	"	1	2.29.05	..	..
15	Joseph Wedel.....	8.31.04	Messenger.	1	7. 1.05	..	..
14	Fred Lenz.....	4.27.05	Wrapper.	1	9. 1.05	..	..
15	Arthur Seidel.....	9.21.05	Work in shirt factory.	1	9. 1.05	..	..
14	Hannah Lepske.....	2. 1.05	Office boy.	1	2. 1.05	..	..
15	Chas. Teske.....	11.14.04	Errand girl.	1	9. 1.05	..	..
14	Ida Sturtevant.....	9. 8.04	Work in packing house.	4	9. 1.05	..	..
14	Sam. Stierman.....	9.15.04	"	1	6.30.05	Graduated from eighth grade	..
14	Henry Olsen.....	9. 5.01	"	1	2. 1.05	..	..
15	Karl Kasimir.....	9. 9.04	"	1	2. 1.05	Extended	9. 1.05
14	Chas. Burg.....	9. 8.04	"	1	3. 1.05	..	..
15	Annie Raschenot.....	9.15.04	"	4	7. 1.05	..	..
15	Edward Norbach.....	1.19.05	"	1	7. 1.05	..	..
14	Jesse Asmann.....	1.19.05	"	1	7. 1.05	..	..
15	Frank Lapfel.....	2.27.05	"	1	11.30.04	..	..
14	Herbert Linhoff.....	9.19.04	"	1	1. 1.05	..	..

TABLE 1 (a)—Continued.

Name of Child	Age when Leaving School		Grade last in	Date of Final Permit	Occupation Child was to Take up	Reason for Granting Permit (*)	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Frank Tessler.....	15	8	.....	3.18.05	Work in Packing House	1	7. 1. 05	.....	.....	.....
John Telak.....	14	8	.....	3.20.05	"	1	9.30.05	.....	.....	.....
Ed. Hochule.....	15	9	.....	3.27.05	"	1	7. 1. 05	.....	.....	.....
Harry Oliver.....	14	10	.....	9.12.04	"	1	12. 1. 05	.....	.....	.....
Geo. Novorolsky.....	15	11	.....	4.12.05	"	1	9.10.05	.....	.....	.....
Roy Beaudette.....	15	4	.....	4.15.05	"	1	9. 5. 05	.....	.....	.....
Jakob Petschen.....	14	3	.....	4.17.05	"	1	7. 1. 05	.....	.....	.....
Fred. Strieble.....	15	7	.....	4.18.05	"	1	7. 1. 05	.....	.....	.....
Mary Petschen.....	15	7	.....	10.20.04	"	1	7. 1. 05	.....	.....	.....
Julia Petschen.....	14	7	.....	9. 7. 04	"	1	7. 1. 05	.....	.....	.....
Catherine Nelson.....	15	6	.....	11. 2. 04	Work in steam laundry.	1	5. 2. 05	.....	.....	.....
Polly Skorzawsky.....	15	6	.....	11. 4. 4	"	1	5.21.05	.....	.....	.....
Grace Simington.....	14	10	.....	1.30.05	"	1	9. 1. 05	.....	.....	.....
Isabella Duenwald.....	12	2	.....	3.24.05	"	1	.....	Case investigated, letter from Supt. of Schools taken up, child ordered to be sent home.	.....	.....
Horatio Krause.....	14	8	.....	9.19.04	Work in department store.	1	2. 6. 05	.....	.....	.....
Geo. Benzel.....	14	7	.....	8.27.04	"	1	1. 1. 05	.....	.....	.....
Wm. Brettnr.....	14	11	.....	9.15.04	"	1	4. 1. 05	.....	.....	.....
Oliver La Bossiere.....	15	6	.....	9.24.04	"	1	.....	.....	.....	.....
Nelle Harzog.....	15	2	.....	9.12.04	"	1	2. 1. 05	Extended	.....	.....
Henry Thiergart.....	14	5	.....	10.25.04	"	1	2. 1. 05	.....	.....	.....
Francis McMahon.....	14	1	.....	10.14.04	"	1	10.18.05	.....	.....	10.15.05
Geo. Lund.....	15	1	.....	3.30.05	"	1	7. 1. 05	.....	.....	.....
Martin Duff.....	14	2	.....	3.13.05	Work in department store	1	7. 1. 05	.....	.....	.....
Jno. McBride.....	14	1	.....	5. 2. 05	"	1	9.10.05	.....	.....	.....
Elsie Gruetzmann.....	14	2	.....	5. 2. 05	"	1	4. 1. 05	Extended	.....	.....
Carrie Schmidt.....	15	7	.....	1.35.05	"	1	2. 1. 05	Extended	.....	7. 1. 05
Edith Connors.....	14	7	.....	11.30.04	"	1	2.19.05	Extended	.....	.....
Katie Moshn.....	15	10	.....	12.23.04	"	1	7. 1. 05	.....	.....	.....
Veronica Le Mere.....	14	3	.....	1.27.05	"	1	8.11.05	Extended	.....	8.11.05
Jennie Akernecht.....	15	3	.....	8.24.04	"	1	2.25.05	.....	.....	.....
Mary Kerney.....	15	5	.....	8.24.04	"	1	2. 1. 05	.....	.....	.....
Louisa Larson.....	15	1	.....	9.15.04	"	1	7. 1. 05	.....	.....	.....
Freda Adolphson.....	14	9	.....	9. 5. 04	"	1	2. 1. 05	.....	.....	.....

14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	12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TABLE I (a)—Continued.

Name of Child	Age when Leaving School		Grade last in	Date of Employment	Occupation Child was to Take up	Reason for Granting Permit (1)	Expiration of Permit	General Remarks	Permit		Received to Date
	Years	Months							on Date	to Date	
Edward Becker	14	9	...	4. 3. 06	work in Clothing Store In department store.	1	7.11.06				
Walter Herdt	14	1	...	4.28.06	"	1	7. 1. 06				
John Tanzer	14	8	...	9. 6. 04	"	1	9.11.06				9.11.06
Edward Ferren	14	5	...	9. 6. 04	"	1	9.10.06				9.10.06
Jerry Kruppka	14	4	...	12.13.04	"	1	7. 1. 06				
Lorenz Lusk	15	4	...	5. 5. 06	Messenger, telegr. office	1	7. 1. 06				
Annie Carlson	15	5	...	4. 5. 06	"	1	7. 1. 06				
Howard Bell	14	11	...	11.15.06	"	1	9. 1. 06				
Chas. Newman	14	6	...	8.16.04	"	1	7. 1. 06				
Elmer Green	14	6	...	4.20.06	"	1	7. 1. 06				
Harold Nick	13	..	...	...	"	1	7. 1. 06	No legal permit, had letter from Supt. of Schools			
Robert Linhoff	13	..	...	...	"	1	...	No legal permit, had letter from Supt. of Schools			
Anton Brokosch	14	5	...	3. 6. 06	Apprentice machine shop.	1	7. 1. 06				
Wm. McKenna	No record	...	...	...	Reed worker.	1	...				
Rosa Gobel	15	2	...	4.18.06	"	1	7. 1. 06				
Ruth Peterson	15	9	...	4.17.06	"	1	7. 1. 06				
Leona Ackerman	15	8	...	4.17.06	"	1	7. 1. 06				
Chas. Falk	14	5	...	5.11.06	Stripper, cigar factory.	1	7. 1. 06				
Harry Mahler	15	3	...	1.18.06	Apprentice fur store.	1	10. 1. 06				
Jos. K. Bacon	15	11	...	5.17.06	Clerk, railroad office.	1	7. 1. 06	Permit extended from Nov. 22, 04			
John Geduldig	15	7	...	5. 9. 06	Messenger.	1	10.25.06	Permit extended from Nov. 25, 04			
Herbert Norbeck	15	2	...	5.20.06	"	1	7. 1. 06				
Harry Sturtevant	12	9	...	3.15.06	"	1	7. 1. 06				
Oscar Anderson	14	2	...	2. 6. 06	"	1	9. 6. 06				
Robert Burns	15	4	...	1. 10. 06	"	1	8.10.06				
Rudolf Housa or Howes	14	10	...	10. 3. 04	In printing office.	1	7. 1. 06				
Mary Micko	13	3	...	1. 3. 06	In grass twine factory.	1	4. 1. 06				
Anna Ruas	14	5	...	10.23.06	"	1	6.27.06	Extended			
Rose Kaar	15	8	...	11.23.06	"	1	6.30.06				
Selma Liebert	15	5	...	11.23.04	"	1	6.30.06				
Mary Kujawa	15	8	...	11.23.04	"	1	2.13.06				
Mary Hammarlinde	14	10	...	11.28.04	"	1	2.15.06	Extended			7. 1. 06
Mary Kujawa	14	10	...	11.28.04	"	1	2.15.06	Extended			7. 1. 06
Henry Blom	15	2	...	9. 6. 04	In department store.	1	2.15.06	Extended			7. 1. 06

[illegible]

TABLE I (a)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment	Occupation Child was to Take up	Reason for Granting Permit (*)	Expiration of Permit	General Remarks	Permit on Date	Rec'd to Date
	Years	Months								
Jos. Winkle	13	years old						No legal permit, letter from Supt. of Schools		
Flora Cody	15	4		11 30.04	In Department Store	1	7.21.05			
M. Wasielewska	15	1		2.10.05	In grass twine factory.	1				
Harry Moran	15	1	4		Apprentice—cigar factory.	1				
Guy Edworth	14	6			In clothing store.	1				
Joe Krueger	15	2			"	1				
Philippine Grau	15	8			"	1				
Anton Roth	14	4		4. 3.05	Confectionery factory.	1	7. 1.05			
Joe Connelly	15	11		4. 6.05	In printing office.	1	6.30.05			
Wm. Schorn	15	10		3.31.05	Laborer.	1	7. 1.05			
George Victor Eck	15	10		4.12.05	"	1	9.10.05			
Aug. Swanson	14	7		4. 3.05	In stationery store.	1	7. 1.05			
John Th. Treiweiler	No record				"	1	9. 1.05			
Raymond Desler	15	2		1.10.05	In broom factory.	1	7. 1.05	Extended from Sept. 30, 04		
Bernard Tung	15	11		4.12.05	In slaughter house.	1	7. 1.05			
Arthur Young	14	9		4.11.05	Errand boy.	1	6.30.05			
John Hoppe	15	9		3. 1.05	"	1	7. 1.05			
Oscar Anderson	15	7		3. 1.05	"	1	8.18.05			
Frank Krueger	14	11		4.15.05	In trunk factory.	1	7. 1.05			
Alfred Stanke	14	10		3.10.05	In piano factory.	1	7. 1.05			
H. Malmstrom	15	9		4.13.05	Errand boy.	1	7. 1.05			
Frank Lang	15	9		3.13.05	Bottling of beer.	1	7. 1.05			
Geo. Kerst	14				In railroad office.	1		No record, attending night school		
A. Conrath	14	7		3.28.05	"	1	9. 1.05			
James Graham	14	2		8.13.04	Messenger.	1	7. 1.05			
May Ganz	15	7		9.14.04	In shirt factory.	1	2.27.05			
Anne Schroepfer	14			9. 9.04	"	1	2. 1.05	Extended		10. 9.05
Rose Behnke	14	10		5. 6.04	"	1	2. 1.05	Extended		
Minnie Mehackoerner	15	6		1. 5.05	"	1	6.15.05			
Agnes Hoeller	14	5		9. 2.04	"	1	2. 1.05			
Hilda Hoeller	14	5		9.24.04	"	1	2. 1.05			
John Ostertag	15	11		4.13.05	Apprentice—Upholat.	1	7. 1.05			
Mollie Wallen	14	11		4.13.05	Telephone operator.	1	7. 1.05			
Arthur Stohr	14	10		11.15.04	Apprentice, brush factory	1	3. 1.05	Extended		7. 1.05
Louis Swansick	15	7		3.24.05	Helper.	1	9. 1.05			

15	Dominic Timma.....	3.13.05	Stripper, cigar factory.	1	7. 1.05	.....
15	Vincent Samec.....	4.10.05	Laborer.	1	9. 1.05	.....
14	Thos. W. Koch.....	3.13.05	Office boy.	4	7. 6.05	.....
13	A. Cedarholm.....	.....	.....	1	No legal permit, letter from	.....
14	Annie Healey.....	4.13.05	Apprentice, millinery.	1	Supt. of Schools	.....
15	Maggie Lee.....	4.12.05	"	1	7. 1.05	.....
15	Dora Lobofsky.....	4.15.05	"	1	7. 1.05	.....
15	Ella Augustina.....	4.13.05	"	1	7. 1.05	.....
14	Frances Herzog.....	4.13.05	"	1	7. 1.05	.....
14	Otto Wolgram.....	9.10.04	In cigar box factory.	1	7. 1.05	.....
14	Willie Irestone.....	3.27.05	"	1	9. 1.05	.....
14	Beatrice Krugen.....	2.11.05	Apprentice, bindery.	1	9. 1.05	.....
15	Rudolf Weibinger.....	2. 1.05	In printing shop.	1	9. 1.05	.....
14	Ben. Tauer.....	3.22.05	"	1	9. 1.05	.....
14	Albert Bergstrom.....	5. 1.05	"	1	9.10.05	.....
14	Jos. Frühl.....	4.10.05	Apprentice, machine shop	1	7. 1.05	.....
14	Pauline Geering.....	3.31.05	Apprentice, millinery.	1	7. 1.05	.....
14	Frida Bley.....	3.31.05	"	1	7. 1.05	.....
14	Emma Rose.....	3.31.05	"	1	7. 1.05	.....
14	Minnie Stefanie.....	3.31.05	"	1	7. 1.05	.....
14	Paul Tatet.....	3.31.05	"	1	7. 1.05	.....
15	Josephine Devine.....	4. 3.05	"	1	7. 1.05	.....
14	Fred Wetter.....	9.23.04	Work in box factory.	4	4. 1.05	Extended
14	Nat. Chebeck.....	9. 3.04	"	3	3. 1.05	Extended
14	Ed. Wesley.....	9. 7.04	"	1	3. 6.05	Extended
14	Axel Borell.....	1.17.05	"	1	3.15.05	Extended
14	Ernest Smith.....	12. 2.04	"	1	3. 1.05	Extended
14	Geo. Swanson.....	10. 7.04	"	1	7. 1.05	.....
14	Andrew Bodek.....	12. 6.04	"	1	6. 1.05	.....
14	John Bernard.....	9. 3.04	Work in brass foundry.	1	4. 1.05	Extended
15	Adolph Salkd.....	1. 5.05	"	1	6.10.05	.....
14	John Eck.....	10. 1.04	"	1	3. 1.05	Extended
14	Frank Cubibehk.....	1. 6.05	"	1	3. 3.05	Extended from Aug. 27, 04
14	J. Novotny.....	1. 4.05	"	1	3. 1.05	Extended from Aug. 29, 04
14	Oscar Skooglund.....	3.23.05	Work in cigar factory.	1	7. 1.05	.....
15	E. Carlson.....	3.23.05	"	1	7. 1.05	.....
15	Christian Armar.....	9. 9.04	No record of work.	1	10. 9.05	.....
15	John Alguet.....	11. 1.04	"	1	11.30.04	.....
14	Joseph Amon.....	11.14.04	"	1	12.15.04	.....
14	Roy E. Asp.....	2. 6.05	"	1	2. 7.05	.....
14	Ray Anderson.....	9. 3.04	"	1	10. 3.04	.....
14	Sigo Anderson.....	8.12.04	"	1	10.10.04	.....
15	Katie Bauer.....	1. 3.05	"	1	1. 3.05	.....
15	Fred Brown.....	2. 7.05	"	1	9.30.05	.....
15	Bunese.....	3. 3.05	"	1	9. 5.05	.....
15	Lucy Bebeow.....	3. 3.05	"	1	7. 1.05	.....
14	Alice Baker.....	3.31.05	"	1	2. 1.05	.....
14	Bert Bresline.....	9.13.04	"	1	10.10.04	.....
14	Edward Bohn.....	9.16.04	"	1	.....	.....

TABLE I (a)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment	Occupation Child was to Take up	Reason for Granting Permit (*)	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Emma Balch.....	15	6		9.26.04	No record of employment.	1	9.26.05			
John Bukind.....	14	11½		9.30.04		1	2.1.05			
John Brown.....	15	3		10.10.04	"	1	10.17.05			
Annie Buxus.....	11	11		10.12.04	"	1	10.18.04			
Ida Bacter.....	15	11		9.19.04	"	1	1.1.05			
Walter Buchner.....	15	10		11.18.04	"	1	3.1.05			
John Berger.....	15	2		11.30.04	"	1	12.20.04			
Albert Burmayer.....	14	3		12.3.04	"	3	2.1.05			
Bertha Benecke.....	15	9		9.6.04	"	1	1.8.05			
Olga Breddicker.....	15	8		9.6.04	"	1	1.1.05			
Edw. Bedner.....	14	7		9.2.04	"	1	1.1.05			
Wm. Barty.....	15	4		5.10.05	"	1	9.10.05			
Sam Brown.....	14	10		8.22.04	"	1	1.1.05			
Mich. Bailey.....	15	4		3.1.05	"	1	9.1.05			
Ada Chinlinson.....	14	4		9.6.04	"	1	10.6.04			
Robt. Campbell.....	14	3		12.6.04	"	1	1.1.05			
Hjalmar Christenson.....	15	4		9.8.04	"	1	1.1.05			
Michael Connors.....	15	5		9.20.04	"	1	6.7.05			
Chas. Cushman.....	15	4		9.22.04	"	1	10.10.04			
John Crossman.....	14	6		9.24.04	"	1	10.17.04			
Hubert Christenson.....	15	2½		9.8.04	"	1	10.8.05			
Laura Chadwick.....	15	4		5.11.05	"	1	7.1.05			
Roy Cook.....	15	6		9.12.04	"	1	9.12.05			
Colman Currier.....	15	4		4.26.05	"	1	7.1.05			
Edmund Doyle.....	14	4		9.9.04	"	1	10.15.04			
Oscar Dash.....	15	11		4.7.05	"	1	7.1.05			
Edw. Dudley.....	14	4		10.5.04	"	4	1.16.05			
Victor Dohlsburn.....	15	8		1.31.05	"	1	3.1.05			
Ernest Dreher.....	15	10		5.16.05	"	1	7.1.05			
Inez Drake.....	13	5		5.16.05	"	1	7.1.05			
Mamie Deal.....	15	7		9.8.04	"	1	2.1.05			
Mary Ekstrom.....	15	3		8.23.04	"	1	1.1.05			
Chas. Eberle.....	14	8		10.26.04	"	1	4.1.05			
John Elasy.....	15	7		9.14.04	"	1	1.31.05			
Oscar Edstrom.....	15	3		9.3.04	"	1	2.1.05			
Margaret Eckel.....	15	2		9.9.04	"	1	4.1.05			
Hubert Erickson.....	14			4.24.05	"	1	7.1.05			

Rank	—	Frank	9	4.25.05	No record of employment.	1	7.1.05
14	Frank	—	9	4.25.05	No record of employment.	1	7.1.05
14	Coleman	Flaherty	11	4.25.05	"	1	7.1.05
14	Rose	Froehner	3	4.25.05	"	1	7.1.05
15	Anton	Frylinger	3	4.4.05	"	1	7.1.05
14	Flourence	Fay	9	10.4.04	"	1	2.1.05
15	Earl	Ferguson	11	10.10.04	"	1	10.17.04
15	A. Frank	.....	2	12.6.04	"	1	1.5.05
14	Henry	Fransen	6	9.6.04	"	1	2.1.05
15	Anna	Frieden	8	9.3.04	"	1	1.1.05
14	Alice	Furman	6	8.18.04	"	1	1.1.05
14	James E.	Graham	14	8.13.04	"	1	1.1.05
15	Frank	Ganshower	7	11.9.04	"	1	3.14.05
15	A. Grace	.....	10	10.12.04	"	1	10.12.04
14	Anton	Groeber	3	9.1.04	"	1	9.1.05
14	Arthur	Grolla	2	9.23.04	"	1	10.5.04
15	Arthur	Gruchot	8	9.7.04	"	1	1.1.05
15	Henry	Gage	5	5.8.05	"	1	7.1.05
15	Henry	Greer	2	2.8.05	"	1	3.1.05
15	Anthony	Gerber	8	2.10.05	"	1	9.1.05
15	Chas.	Gauthor	10	9.12.04	"	1	9.1.05
14	C. Gensch	.....	2	9.14.04	"	1	2.1.05
15	Geo.	Gansbauer	3	3.3.05	"	1	9.1.05
15	John	Green	8	1.3.05	"	1	4.21.05
14	Caroline	Gomony	11	3.31.05	"	1	7.1.05
14	Jennie	Green	3	6.17.04	"	1	9.4.04
13	Edith	Goodkind	4	6.20.04	"	1	7.1.05
15	Mamie	Gunderson	5	4.22.05	"	1	7.1.05
14	John	Hoban	7	4.4.05	"	1	7.1.05
14	Fred	Hanselman	10	2.13.05	"	1	9.1.05
15	Mathew	Hefner	5	3.15.05	"	1	7.1.05
15	Edward	Hoch	9	3.27.05	"	1	7.1.05
15	George	Henon	8	9.15.04	"	1	1.5.05
14	Edward	Hakaach	9	9.12.04	"	1	10.10.04
15	Jos.	Herder	4	9.13.04	"	1	10.10.04
14	Lina	Hamilton	6	2.9.05	"	1	1.1.05
15	Hubert	Hanson	14	8.7.04	"	1	2.5.05
15	Tully	Hester	7	8.7.04	"	1	2.1.05
15	Michael	Hamilton	5	9.22.04	"	1	5.5.05
14	Pearl	Hancock	14	5.17.05	"	1	7.1.05
15	Alfred	Husch	3	5.24.05	"	1	7.1.05
15	St. Clair	Hinkens	3	12.29.04	"	3	10.10.05
15	Lizzie	Hubert	4	11.23.04	"	1	4.1.05
14	Martha	Hudalla	11	11.1.04	"	1	4.1.05
15	Bertha	Hillen	10	10.20.04	"	1	3.1.05
15	Carl	Hofman	7	9.6.04	"	1	10.6.04
14	Fr. Hefner	.....	9	9.6.04	"	1	10.6.04
15	Rich. Heyden	.....	4	5.6.05	"	1	9.10.05
14	Alma	Heller	5	5.17.05	"	1	9.10.05
15	O. Jaques	.....	8	2.23.05	"	1	9.1.05
15	Ruth	Johnson	2	9.6.04	"	1	4.1.05

TABLE I (a)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment	Occupation Child was to Take up	Reason for Granting Permit	Expiration of Permit	General Remarks	Permit	
	Years	Months							on Date	Rec'd to Date
Nellie A. Johnson	14	5	11	1.04	No record of employment.	1	1.06			
Robt. Johnson	14	4	12	16.04	"	1	2.1.06			
Dennis Jackson	15	7	12	9.04	"	1	1.1.06			
J. Jurgensen	14	9	12	2.04	"	1	1.15.06			
Clara Jisko	13	11	5	18.04	"	1	7.1.06			
Elmer Jordan	15	7	10	20.01	"	1	10.20.04			
Geo. Johnson	15	7	9	19.04	"	1	2.1.06			
Russel Julien	14	8	4	7.06	"	1	7.1.06			
Ch. Jackson	15	5	4	10.05	"	1	7.1.06			
Joe Johnson	15	5	5	8.06	"	1	9.1.06			
John Jewell	14	5	6	1.06	"	1	4.10.05			
Lizzie Jephson	14	5	9	10.04	"	1	2.1.06			
Alice Jeske	15	9	9	14.01	"	1	2.1.06			
Albert Jackson	14	6	9	15.04	"	1	2.1.06			
Wm. Johnson	14	9	3	3.05	"	1	7.1.06			
Ellen Johnson	15	2	3	10.05	"	1	7.1.06			
Elsie Jeske	15	8	4	19.05	"	1	7.1.06			
Florence Joyce	14	8	4	4.05	"	1	7.1.06			
Frank Landi	14	2	9	9.04	"	1	2.1.06			
Frank Kroll	15	5	3	21.05	"	1	9.25.05			
Edward Kirchhoff	13	8	5	12.05	"	1	9.10.05			
Huida Kunn	15	4	9	1.01	"	1	1.1.06			
Frank Kellog	15	4	9	3.04	"	1	10.1.04			
Marie Klatt	14	8	8	6.04	"	4	10.7.05			
Marie Kaimza	15	1	8	7.04	"	1	2.1.06			
A. Kroff	14	9	8	6.04	"	1	10.6.04			
Eugene Kelly	13	1	3	6.01	"	1	1.1.06			
P. Krusjeski	15	7	11	4.04	"	1	5.15.05			
Wielie Koop	15	10	11	23.04	"	1	1.31.06			
Emily Kricha	14	6	6	6.06	"	1	7.1.06			
Will Kepper	14	8	6	13.06	"	1	7.1.06			
Em. Keer	14	7	6	24.06	"	1	12.1.04			
Axel Kjelsen	15	10	10	15.04	"	1	9.1.06			
Geo. Kramer	14	2 1/2	2	6.06	"	1	10.10.34			
Arthur Kenny	14	3	11	24.04	"	1	1.1.06			
Lilly Kotnow	14	10	9	8.04	"	1	10.10.34			
Matilde Keppels	15	11	10	12.04	"	4	10.27.04			

13	Mary Kuhlman	5	4.15.05	1	7.1.05
14	Geo. Kruwitch	9	2.6.05	1	4.14.05
15	Lina Krueger	6	2.10.05	1	8.19.05
16	Katie Kulmaroski	11	3.4.05	1	7.1.05
17	John Knopf	10	4.23.05	1	7.1.05
18	Theo. Klein	7	10.14.04	1	2.1.05
19	Joseph Leibel	3	9.7.04	1	10.31.04
20	Lida Lachnys	11	9.6.01	1	4.1.05
21	John Lentsch	5	11.1.04	1	12.1.04
22	Basil Loughomme	7	11.9.04	1	3.19.05
23	Frida Lawson	11	6.16.05	1	7.1.05
24	Rosa Lenz	6	6.18.05	1	10.20.04
25	Stanley Low	6	10.20.04	1	12.21.04
26	Oscar Lind	6	11.21.04	1	2.2.05
27	Frank Lackner	6	1.26.05	1	2.1.05
28	Lizzie Lamp	3	9.8.04	1	10.6.04
29	Steven Lalle	1	9.6.01	1	10.17.04
30	Agnes Langton	9	10.10.04	1	7.1.05
31	Victor Leader	6	4.6.05	1	2.1.05
32	John Luth	1	9.13.04	1	2.1.05
33	John Leo	4	10.10.04	1	11.22.04
34	Chas. Lie	10	9.14.04	1	7.1.05
35	Lina Luft	3	3.3.05	1	7.1.05
36	Lawrence Lander	8	3.6.05	1	9.1.05
37	Robt. Lilyclath	11	2.28.05	1	7.1.05
38	Walter E. Lincoln	6	4.3.05	1	7.1.05
39	Agnes Le Claire	8	8.31.04	1	1.1.05
40	L. Larson	9	8.18.04	4	1.25.05
41	Sadie Mallin	10	9.8.04	1	4.1.05
42	Jennie Maloney	7	9.8.04	1	1.30.05
43	Annie McDonough	7	9.9.01	1	11.30.04
44	Rosie Micho	3	10.29.04	1	6.1.05
45	Henry McCuslin	11	10.25.04	1	9.10.05
46	Lee McMahon	7	11.28.04	1	2.1.05
47	Bertha Mayor	7	12.10.04	1	12.12.04
48	L. Minea	3	12.12.04	1	7.1.05
49	L. Mulcar	2	6.18.05	1	2.1.05
50	Ida Marko	2	10.15.04	1	2.1.05
51	Raymund Micho	2	10.21.04	1	2.1.05
52	Agnes Murphy	2	9.23.04	1	9.1.05
53	Marie Mulligan	2	9.26.04	1	2.8.05
54	Anna Munch	5	9.8.04	1	10.10.04
55	Arthur Murrey	1	9.26.04	1	7.1.05
56	R. Meek	6	4.11.05	1	7.1.05
57	Gertrude McGough	3	5.8.05	1	9.10.05
58	Joe Mayeska	11	5.23.05	1	10.15.05
59	John McGivern	4	9.15.04	1	1.1.05
60	Phil Millner	11	12.3.04	1	1.1.05
61	Paul La Bonnaire	11	9.15.04	1	1.1.05
62	May McAvoy	11	9.15.04	1	1.1.05

TABLE I (a)—Continued.

Name of Child	Age when Leaving School		Grade Child was in	Date of Employment Permit	Occupation Child was to take up	Reason for Granting Permit ^(*)	Expiration of Permit	General Remarks	Permit	
	Years	Months							on	Received
Walter Maloney.....	14	1	.....	2.16.05	No record of employment	1	9.1.05	.....	.....	.....
Peter Miller.....	15	..	.....	14.9.05	"	1	7.1.05	.....	.....	.....
Culvin Mayfield.....	14	..	.....	1.4.05	"	1	7.1.05	.....	.....	.....
Edw. Maynard.....	15	11	.....	5.3.05	"	1	7.1.05	.....	.....	.....
Bennie Newland.....	15	11	.....	9.6.04	"	1	2.1.05	.....	.....	.....
Agnes Newling.....	14	8	.....	9.6.04	"	1	2.1.05	.....	.....	.....
Ruth Newbury.....	15	11	.....	10.29.04	"	1	11.23.04	.....	.....	.....
Lena Nowack.....	15	11	.....	11.25.04	"	1	12.11.04	.....	.....	.....
John Nowack.....	15	9	.....	10.14.04	"	1	10.13.04	.....	.....	.....
Henry Neeser.....	15	9	.....	9.9.04	"	1	1.1.05	.....	.....	.....
Adolf Novack.....	13	7	.....	9.27.04	"	1	11.31.05	.....	.....	.....
Henry Nelson.....	15	6	.....	9.28.04	"	1	12.1.04	.....	.....	.....
Harold Nelson.....	15	1	.....	10.3.04	"	1	10.3.05	.....	.....	.....
Willie Neuenfeldt.....	15	6	.....	5.3.05	"	1	7.1.05	.....	.....	.....
Della Nadeau.....	15	8	.....	9.10.04	"	1	1.25.05	.....	.....	.....
Henry Nalplisky.....	15	8	.....	3.30.05	"	1	7.1.05	.....	.....	.....
Gust. Oberg.....	14	11	.....	9.3.04	"	1	2.1.05	.....	.....	.....
Helen Olson.....	15	1	.....	9.6.04	"	1	11.6.04	.....	.....	.....
Edw. O'Leary.....	15	5	.....	5.17.05	"	1	7.1.05	.....	.....	.....
Erick Olson.....	14	8	.....	10.12.04	"	1	10.12.04	.....	.....	.....
Otto Olson.....	14	8	.....	9.7.04	"	1	10.10.04	.....	.....	.....
Quinn Offendahl.....	15	..	.....	4.14.05	"	1	7.1.05	.....	.....	.....
Hugo Olson.....	15	10	.....	9.12.04	"	1	2.1.05	.....	.....	.....
Thos. O'Toole.....	15	9	.....	9.7.04	"	1	10.10.05	.....	.....	.....
Alfred Olson.....	15	11	.....	3.9.05	"	1	7.1.05	.....	.....	.....
Raymund Pensensstader.....	14	9	.....	9.9.04	"	1	2.1.05	.....	.....	.....
Ed. Puvogel.....	14	5	.....	10.29.04	"	1	4.1.05	.....	.....	.....
Will Purcell.....	14	..	.....	11.27.04	"	1	3.1.05	.....	.....	.....
Chas. Podewiltz.....	15	9	.....	5.12.05	"	1	7.1.05	.....	.....	.....
Arthur Prakash.....	14	..	.....	10.21.04	"	1	2.1.05	.....	.....	.....
Nettie Papera.....	15	1	.....	2.4.05	"	1	4.1.05	.....	.....	.....
Ester Peacham.....	15	10	.....	9.29.04	"	1	2.1.05	.....	.....	.....
Lena Peil.....	15	7	.....	9.15.04	"	1	2.1.05	.....	.....	.....
Daniel Penoché.....	14	1	.....	3.20.05	"	1	7.1.05	.....	.....	.....
Frank Penoché.....	15	10	.....	4.7.05	"	1	7.1.05	.....	.....	.....
Frank Roderick.....	13	6	.....	6.20.04	"	1	9.04	.....	.....	.....
Math. Rosner.....	14	11	.....	8.27.04	"	1	1.1.05	.....	.....	.....

16	Chas. Redmond	2.28.05	4	8.31.05	.....	.....
14	Russell Redmond	2.28.05	1	9.1.05	.....	.....
15	Arthur Rosenbaum	5. 8.05	1	9.10.05	.....	.....
15	Axel Robinson	9.10.04	1	10.10.04	Extended	10.10.05
14	Frank Reiburg	11. 3.04	1	12. 4.04	Attends night school.	.....
14	Frances Ruiz	5.18.05	1	7. 1.05	.....	.....
14	Eugene Ryan	5.24.05	1	7. 1.05	.....	.....
15	Frank Reitzner	1.31.05	1	1.31.05	.....	.....
14	Jennie Roericker	9.14.04	1	7. 1.05	.....	.....
14	Robert Robinson	2.13.05	4	10.10.05	.....	.....
15	Willie Rodgers	9. 9.04	1	4. 1.05	.....	.....
14	Jul. Schredfa	9. 9.04	1	7. 1.05	.....	.....
15	Mary Schwartz	5. 1.05	1	1. 1.05	.....	.....
15	Adolph Salko	9. 2.04	1	10. 7.05	.....	.....
15	Chas. Sokup	9. 7.01	1	2. 1.05	.....	.....
14	Frank Swartz	9. 6.04	1	4. 1.05	.....	.....
14	Ella Sicko	10.25.04	1	7. 1.05	.....	.....
14	John Schalle	11. 4.04	1	7.11.05	.....	.....
14	Arthur St. George	5.16.05	1	7. 1.05	.....	.....
14	Algernon Sargent	5.18.05	1	7. 1.05	.....	.....
14	Lillian Stanley	5.24.05	1	2. 1.05	.....	.....
14	John Schlohrhofer	10.14.04	1	10.18.04	.....	.....
15	M. Scott	10.15.04	1	4. 1.05	.....	.....
14	Peter St. Germaln	.....	1	10.10.04	.....	.....
14	Lena Schopf	9. 8.04	1	10. 8.04	.....	.....
14	Lillian St. James	9. 8.04	1	10.21.04	.....	.....
15	Annie Strauch	9.21.04	1	10.23.04	.....	.....
15	Louis Sandtrock	9.23.04	1	2. 1.05	.....	.....
15	Agnes Stewart	9. 7.04	1	12.10.04	.....	.....
14	John Steper	9.25.04	1	7. 1.05	.....	.....
14	Walter Sullwold	4.10.05	1	7. 1.05	.....	.....
14	Ch. Saede	4.11.05	1	7. 1.05	.....	.....
15	Willie Schoen	4.12.05	1	9.10.05	.....	.....
14	Henry Slipka	5.22.05	1	4. 1.05	.....	.....
14	Frances Scherph	9.12.04	1	10.10.04	Extended	7. 1.05
14	Willie Scharfbilling	9.12.04	1	10.10.04	.....	.....
14	John Schmitz	9.12.04	1	10.10.04	.....	.....
15	Amelia Scheppel	9.14.04	1	10.10.04	.....	.....
14	Anna Steukert	9. 6.04	1	10.10.04	.....	.....
15	Rud. Schletzmeister	3. 6.05	1	7. 1.05	.....	.....
14	Gerhard Stersing	2.21.05	2	9. 1.05	.....	.....
15	Laura Salera	2.25.05	1	3.25.05	.....	.....
15	Fred Stuebel	4.18.05	1	7. 1.05	.....	.....
15	Emma Thutos	3.27.05	1	7. 1.05	.....	.....
14	Paul Tunge	4. 5.05	1	2. 1.05	.....	.....
12	Martin Tannmiller	10. 4.04	1	2. 1.05	.....	.....
14	Rud. Thalhuber	9. 8.04	1	11.30.04	.....	.....
15	Frank Trumph	9.19.04	1	2. 1.05	.....	.....
14	John Treveler	10.13.04	1	10.28.04	.....	.....
14	Henry Tiernstedt	10.25.04	1	.....	.....	.....

TABLE 1 (a)—Continued.

Name of Child	Age when Leaving School		Grade last was in	Date of Employment Permit	Occupation Child was to take up	Reason for Granting Permit (*)	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Elizabeth Tschaeden	14	9	.....	11 15 04	"	1	1. 1. 05	.....	.....	.....
B. Terlinde	14	3	.....	11 19 04	"	1	4. 1. 05	.....	.....	.....
Helena Tubinger	15	4	.....	9. 7. 04	"	1	2. 1. 05	.....	.....	.....
Michael Tschida	15	4	.....	3. 1. 05	"	1	8. 9. 05	.....	.....	.....
Carolina Thelsen	15	6	.....	3. 2. 05	"	1	1. 2. 05	.....	.....	.....
— Vitlen	15	6	.....	9. 16. 05	"	1	10. 19. 04	Attends night school	.....	.....
George Victor	14	3	.....	10. 5. 04	"	1	9. 1. 05	.....	.....	.....
Amelia Wagner	14	1	.....	3. 2. 05	"	1	7. 1. 05	.....	.....	.....
Tony Weber	15	2	.....	4. 18. 05	"	1	7. 1. 05	.....	.....	.....
Clara Weers	15	9	.....	3. 28. 05	"	1	7. 1. 05	.....	.....	.....
Ella Welter	13	10	.....	5. 11. 05	"	1	7. 1. 05	.....	.....	.....
Adelbert Wagner	14	6	.....	4. 8. 05	"	1	7. 1. 05	.....	.....	.....
Elizabeth Wolf	14	6	.....	10. 21. 01	"	1	1. 6. 05	.....	.....	.....
Newton Wenzell	15	6	.....	5. 22. 05	"	1	7. 1. 05	.....	.....	.....
Fred Zulkow	15	4	.....	9. 8. 04	"	1	4. 1. 05	.....	.....	.....
John Zebosky	14	8	.....	9. 8. 04	"	1	2. 1. 05	.....	.....	.....
Bertha Zella	15	7	.....	4. 18. 05	"	1	7. 1. 05	.....	.....	.....
John Zerbahn	14	8	.....	9. 15. 04	"	1	10. 15. 04	.....	.....	.....
S. Ziegler	15	2	.....	11. 22. 04	"	1	11. 29. 04	Attends night school	.....	.....
James Young	15	9	.....	3. 1. 05	"	1	9. 1. 05	.....	.....	.....
Margaret Young	14	2	.....	5. 25. 05	"	1	9. 10. 05	.....	.....	.....
Oscar Young	14	9	.....	11. 21. 04	"	1	3. 15. 05	.....	.....	.....
May Valeska	14	7	.....	11. 21. 04	"	1	1. 1. 05	.....	.....	.....

Total number of permits—614.

(*) 1. When the labor of the child is necessary for his own or parent's support.

2. When the parents by reason of poverty are unable to properly clothe the child.

3. When the child's health prevents his attendance upon school or when he is being taught at home subject to school examination.

4. When he has acquired the ordinary branches required by law.

TABLE 1 (b). Showing Child Labor Permits Issued in Minneapolis During the School Year 1904-1905.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to take up	Reason for Granting Permit (*)	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Madison School.										
Bessie Parker	15	7		9. 6.04	In department store.		3	Bad eyes, condition of which prevents her using books in school.		
John Howard	13	9		9.26.04	Clothing store.		1	Boy sent later to reform school.		
Beatrice Hotchkiss	15	3		9. 8.04	In department store.		1			
Claude Neff	14	11		9.23.04	In photographer's store.		1			
Harry Hill	14	1		10.21.04	Messenger in telegraph office.		3	Has some affection of head, cannot learn in school.		
Herbert Conner	12	9		9.22.04	In art store.		1			
Emily Edward	13	8		9.23.04	In department store.		2	Has returned to school.		
Theodore Walters	14	10		12. 5.04	"		1	Permit granted for term of Christmas holidays. Has returned to school.		
Giles Eggleston	12	10		12. 6.04	"		1			
John Jepsen	14	11		12. 7.04	"		1	Permit granted during holidays, returned to school.		
Reed Mantor	14			12.19.04	Messenger in tel. office			Extended		
Albert Nauman	9	8		12.19.04				Permit granted during holidays, returned to school		
Jennie Sundstrom	13	10		4.13.05	Nursery work.		1			
John Jepsen	15	3		4.24.05	In whole grocery house.		1			
Wm. Davis	14			5.23.05	Work in barber shop.		1			
Irving Murch	13	7		5....06	In department store.		1			
Prescott School.										
Ida Bye	14	5	A7th	9. 2.04	In department store.	1 & 2	2	Poverty in family of eight children with sick father. Extended		
Reuben Anderson	15	3		9.15.04	Work in machine shop			Attends night school, boy is unmanageable		
David Kyle	14	4		9.23.04	Call boy at R. R. shop.			Permit granted on condition that boy attend Y. M. C. A. night school.		
Herbert Holmes	14	10		9.26.04	Work in box factory.	1	11	Returned to school.		
Nestor Swanson	15	8	3d	10.11.04	Work in lumber factory.	1	1			
Edgar Lindall	15			12.16.04	In department store.	2	1	Returned to school.		
Ethel Todd	14			4. .06	In department store.	1 & 2	2	Need in family of seven.		
Leroy Herlund	15	2		4. 3.06	In department store.	1 & 2	9			

TABLE I (b)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to take up	Reason for Granting Permit	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Tilly Nelson	14	9	9	4. 9.06	In pickle factory.	1 & 2	1. 23.06	Need in family of eight. Permit recommended by Assoc. Charities.		
Elmer Reiner	15		½	4.24.06	In meat market.	1	9. 1.06	Need in family.		
Harry Swenson	14	10		5. 4.06	In bedding factory.		9. 1.06	Boy cannot learn and should be in industrial school.		
Conway Wisely	15	5	5	5. 8.05	In lumber yard.	Best for boy	9. 1.06			
Nathalie Kauger	14	7	7	5.16.06	In bakery.		9. 2.06	Permit recommended by pastor, mother a widow and in need.		
Ray Woodward	15	9		5.26.06	In printing office.	2	9. 1.06	Studies at house for examination in fall.		
Humboldt School.										
Martin Gerrick	14	8		9.21.04		1	1.25.06	Father sick, family had to live on \$18 per month for last year. Extended.		9. 1.06
Bernard Breen	14	3		9.26.04		1	1. 1.06	Extended.		9. 1.06
Albert Houston	14	4		9.28.04			1.25.06	Reason—disinterested in school. Extended.		9. 1.06
Theodore Glombek	14	4		10. 6.04		1	1.25.06	Extended.		9. 1.06
Earl Hamilton	14	6		10.27.04		2	1. 3.06	Father dead, boy tired of school. Extended by recommendation of Deputy Commissioner of Labor.		9. 1.06
Urban Bren	13	6		12. 1.04						
Burt Kelterer	14	1		1. 5.05		1 & 2	6. 1.06	People very needy.		9. 1.06
Albert Couillard	14	5		1.16.05			9. 1.06	Father without work.		
Arthur Welschinger	15	5		1.17.05		3	9. 1.06	Health poor, must be out of doors.		
Lillie Anderson	14	1		3. 9.05	In millinery store.	1	9. 1.06	To help pay doctor bills.		
Fred Girsdorf	14	2		3.23.05	In department store.		9. 1.06	Permit issued on recommendation of Assistant Factory Inspector.		
John Hagedron	15	6		3.30.05		1	9. 1.06			
Nells Rasmussen	15	1		3.31.05	In department store.	4	9. 5.06			
Nellie Brunner	14			4. 3.05		1	9. 1.06			
Joseph Latwid	14	2		4.10.05		2	9. 1.06			
Henry Hall	12	5		4.11.05	In department store.	1	9. 1.06	Permit issued on recommendation of Deputy Commissioner of Labor.		
Frank Smith	15	7		4.24.05		1	9. 1.06			
Mary Malacky	13	4		4.25.05	In department store.		9. 1.06			
Luke Malacky	14	10		4.25.06	In tailor shop.		9. 1.06			

Casimir Bryosh	14	3	5. 5. 06	At shoe factory.	9. 1. 05			
Jessie Peters	14	6	5. 15. 06	In jewelry store.	9. 1. 05			
Ralph Olson	15	5	5. 22. 06	At dry goods store.	9. 1. 05			
Peter Cranak	13	1	5. 22. 06		9. 1. 05			
Everett School.								
Edler La Rock	15	1	5. 1. 05	In department store.	1 9. 1. 05	Mother widow		
Irene Mason	12	1	9. 1. 04	At shoe factory.	2 1. 1. 04	Child orphan		
Joseph Gacek	15	6	9. 7. 04		1. 25. 05	Only support of family of eight children		
Bertha Bach	15	6	9. 14. 04		4. 1. 05			
Mary Glory	14	9	9. 19. 04		1 1. 25. 05	Mother paralyzed, child has to work to pay doctor bills		
Albert Gigger	15	1	9. 21. 04	At department store.	1 1. 20. 05	Father injured, boy will attend night school		
Frank Blanchett	15	10	10. 21. 04	In paper mill.	1 1. 1. 05	Eight children in family		
Louis Roam	15	5	1. 17. 05	Messenger at A. D. T. Co.	2 4. 1. 05	Boy is orphan		
Albert Gigger	15	6	1. 20. 05	Advertising bureau.	1 4. 1. 05	Father lame, help needed.		
Frank Burgoyne	15	1	2. 27. 05		1 9. 1. 05	Permit recommended by official of Labor Bureau		
Edward Droll	14		3. 7. 05		1 9. 1. 05	Certified by pastor.		
Ellis La Belle	14	2	3. 15. 05	In candy factory.	4. 24. 05	Extended		6. 1. 05
Will G. Dunn	14	3	4. 12. 05	Bed spring factory and A. D. T.	1 9. 1. 05	Father disabled, boy only support.		
Sheridan School.								
Hubert Le Febre.	14	4	9. 22. 04	In jewelry store.	1 1. 1. 05	Returned to school 1. 3. 05.		
Frank Simonson	14	9	9. 23. 04		1 3. 1. 05	Attends Y. M. C. A. night school—Extended		
Grace Finnerty	15	6	11. 3. 04	In book bindery.	1 5. 1. 05	Returned to school 3. 1. 05.		9. 1. 05
Amadee Gendreas	14		11. 16. 04	In dry goods store.	1 9. 1. 05			
Marie Flatie	14	3 1/2	12. 5. 04	In dry goods store.	2 9. 1. 05			
Henry Bergstrom	15	2	12. 8. 04	In real estate office.	1 9. 1. 05			
Elmer Johnson	15	4	12. 13. 04	In telegraph office.	2 9. 1. 05			
Geo. Schalen	14	10	1. 23. 05	In shoe factory.	1 9. 1. 05	Returned to school 3. 1. 05.		
Andrew Rinker	14	7	2. 14. 05	In express office.	1 9. 1. 05			
Alfred Liebag	15	4	2. 20. 05	In department store.	2 9. 1. 05			
Geo. Henseler	15	9	3. 2. 05	In telegraph office.	1 9. 1. 05			
Geo. Pilkington	15	2 1/2	3. 6. 05	In wholesale house.	2 9. 1. 05			
Henry Nelson	15	11	3. 20. 05	Store work.	1 9. 1. 05			
John Michalski	14	9	3. 22. 05	Messenger in tel. office.	1 9. 1. 05			
Frank O'Leary	14	5	3. 22. 05	Wholesale drug store.	1 9. 1. 05			
Arthur Schiere	14	8	4. 14. 05	In department store.	1 9. 1. 05			
George Glynn	15		4. 5. 05	In printing office.	1 9. 1. 05			
Willie Turgeon	14	3	4. 24. 05	In grocery store.	1 9. 5. 05			
Walter Kenney	14	2	4. 24. 05	In printing office.	1 9. 5. 05			
Catherine Hohler	14	3	4. 14. 05	In department office.	1 9. 1. 05			
Frank Swinton	14	4	3. 29. 05	Mess'r in teleph. office	1 9. 1. 05			

TABLE I (b)—Continued.

Name of Child	Age when Leaving School		Grade Child was in	Date of Employment	Occupation Child was to take up	Reason for Permit	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Eddie Gallik	15			3.31.06	Messenger for A. D. T.	1	1.06			
Katie Gasper	14	2		4.4.06	In department store.	2	9.5.06			
Bertha Olson	15			4.10.05	In department store.	1	9.1.06			
Peter Kost	14	11		4.11.06	Messenger in N. D. T. Co	1	9.1.06			
Edward Scanlon	15			4.12.05	In furniture factory.	1	9.1.06			
Gray Gosselin	14	1		4.23.05	Messenger in N. D. T. Co	1	9.1.06			
Robert Cooper	15	9		5.2.05	To work in the country.	2	9.5.06			
Willie Whelan	14	2		5.5.05	In furniture factory.	1	9.5.06			
Theodore Kline	16			5.8.06	In shoe factory.	1	9.5.06			
Nels Nelson	15	8		5.1.06	In upholstering factory.	1	9.5.06			
Elizabeth Barnuer	14	9		5.12.05	In biscuit factory.	2	9.5.06			
Julia Kennedy	15	8		5.15.06	In department store.	1	9.1.06			
Frank Sczuzblevskile	15	7		5.2.06	In printing office.	1	9.1.06			
Willie Quinn	15	9		5.22.05	In printing office.	1	9.1.06			
James Regan	14			5.17.06	In Store work.	2	9.5.06			
John Gable	15	11½		5.31.06		1	9.5.06			
Carl Bjerk	15	7		9.6.04	Work in saw mill.	1 and 2	2.14.06			
Lizzie Mony	15	1		9.7.04	In department store.	1 and 2	1.1.06		1.3.06	
Albert Lee	15	3		9.12.04	Work in saw mill.	1 and 2	11.15.04	Father left family.		
Claude Hawkins	14			9.13.04	In compo board factory	1 and 2	11.15.04	Returned to school.	11.15.04	9.1.06
Scelmer Nelson	14	6		9.14.04	In saw mill.	1 and 2	11.15.04	Returned to school.	4.14.06	
Reuben Nelson	13	6		9.14.04	In saw mill.	1 and 2	210.15.04	Returned to school—afterwards working in compo board factory.	4.10.06	9.1.06
Arthur Benson	15	5	8th	9.14.04	In box factory.	4	1.04	Had finished 8th grade.		
Albert Erickson	13	6		9.14.04	Out door work.	2	11.15.04	Returned to school.	4.10.06	9.1.06
Elmer Johnson	14	8		9.11.04	In saw mill.	2	11.15.04	Returned to school.		
Ernest Lener	14	6		9.16.04	In clothing house.	1 and 2	4.30.06	Boy finished 8th grade.		
Robert Kent	15	6	8th	9.23.04	In box factory.	2	3.2.06		3.3.06	
Philip Knox	15	1		11.15.04	In department store.	1 and 2	9.1.06			
Rosa Wikberg	14	2		4.24.06	In department store.	2	9.1.06	Orphan		
Ida Sharpe	13	7		4.23.05	In saw mill.	2	9.1.06	Orphan		
Albert Anderson	15			4.7.05	In department store.	2	11.26.05	Orphan		
Olga Skoglund	15	5		4.7.05	In saw mill.	2 and 4	9.5.06			
Paul Lindquist	15	7		4.12.05	In compo board factory.	2 and 4	5.19.06			
Philip Rasindust	15	11		4.12.05	For a brick company.	2	9.1.06			
Emanuel Anderson	14			5.8.05	In compo board factory.	2	9.1.06			
Rudolf Swanson	14	8		5.13.05		2	9.1.06			

[illegible]

TABLE I (b)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment	Occupation Child was to take up	Reason for Permit	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Grant School.										
John Polzus	14	6	.....	1.27.05	At tailor shop.	1	9.1.05	Orphan	.....	.....
Thomas Burns	14	7	.....	1.30.05	At tub factory.	2	9.1.05	.....	.....	.....
Lillie Fishman	16	.....	.....	3.13.05	In department store.	1 and 2	9.1.05	Permit issued upon order of official of Labor Bureau	.....	.....
George James	15	.....	.....	3.21.05	At clothing store.	.....	6.10.05	.....	.....	.....
Geo. Brody	14	.....	.....	3.29.05	News boy.	2	6.10.05	.....	.....	.....
Jake Elden	14	7	.....	3.29.05	At grocery store.	2	6.10.05	.....	.....	.....
Berton Reltz	15	.....	.....	3.29.05	In department store.	2	6.29.05	.....	.....	.....
Edwin Strane	14	5	.....	3.30.05	In clothing house.	2	5.1.05	Mother dead, has stepmother and ugly father invalid	.....	.....
Eduard Kohlas	14	.....	.....	4.26.05	Bell boy in hotel.	2	9.1.05	.....	.....	.....
Clyde Percival	14	.....	.....	5.17.05	With plumber.	2	9.1.05	.....	.....	.....
Minnie Kennig	15	7	.....	5.26.05	In biscuit factory.	2	9.1.05	.....	.....	.....
Joe McKnight	12	5	.....	5.31.05	At department store.	2	9.1.05	.....	.....	.....
Grant School.										
Louis Barnett	15	10	.....	9.1.04	.....	.....	1.1.05	Extended	.....	.....
Fred Althoff	14	3	.....	9.6.04	.....	2	1.1.05	.....	.....	.....
Albert Thoresgaard	13	3	.....	9.19.04	In shoe store.	.....	1.1.05	.....	.....	.....
Otto Hornig	14	5	.....	9.22.04	Jewelry store.	.....	1.1.05	.....	.....	.....
Hilda Neuman	14	8	.....	10.17.04	.....	.....	1.1.05	At home on account of sickness of mother	.....	.....
Gertrude Goldenberg	13	6	.....	10.21.04	Cigar factory.	2	1.1.05	.....	.....	.....
Eva Miller	15	10	.....	11.3.04	.....	2	1.1.05	.....	.....	.....
Ruth Swanson	15	1	8th	11.23.04	News store.	4	2.1.05	Finished 8th grade	.....	.....
Benjamin Toberman	15	11	12.14.04	12.14.04	Leader.	.....	.....	.....	.....	.....
Jennie Levin	10	6	.....	12.19.04	.....	2	1.1.05	Received assistance from Humane Society	.....	.....
Moses Rosenzweig	14	11	.....	3.13.05	Palace Clothing House.	.....	9.1.05	.....	.....	.....
Jacob Fiterman	15	9	.....	4.3.05	.....	3	9.1.05	.....	.....	.....
Lillian Kirby	15	8	.....	4.27.05	.....	2	9.5.05	.....	.....	.....
Clifford Cordier	13	6	.....	5.1.05	.....	2	9.1.05	.....	.....	.....
Leo McLaughlin	15	2	.....	5.2.05	.....	.....	9.1.05	.....	.....	.....
Bessie Mendenholm	15	.....	.....	5.8.05	.....	.....	9.1.05	.....	.....	.....
Harry Ripszinski	14	9	.....	5.9.05	.....	2	9.5.05	Inability to learn	.....	.....
Jacob Kaufman	15	.....	.....	5.3.05	.....	.....	9.5.05	.....	.....	.....

Irving School.

John Abrahamson	14	9. 6.04				11.15.04	Boy moved from this district and know nothing about him		
Marcus Johnson	15	9.20.04				1.15.05	Returned to school	1.23.05	
Edward Hurley	14	8th				6.-.05	Graduated from 8th grade		
Olive Wauger	14	11.23.04				1.15.05	Worked Saturdays and school holidays		
Fay Mills	14	12. 7.04				1.20.05	Do not know where he is employed		
John Rennick	15	9.24.04				1. 9.-.05	Returned to school		
Martin Munson	14	9. 2.04				3.11.15.04	Returned to school	2. 1.05	
John Nelson	15	3.16.05				1.10. 1.05			
Chas. Baxter	13	12.16.04				1. 1.10.05			
Frank Burns	14	11. 7.04				1. 6.-.05	Extended		
Raymond Moore	15	9. 7.04				1.15.-.05	Do not know where he is working	6.-.05	
John Johnson	15	12. 7.04				1. 6.-.05	Returned to school	1.15.05	
Joe. Kiefner	14	9. 6.04				1.1. 1.04	Errand boy		
George Graft	15	9. 8.04				1. 9.15.05			
Clay School.									
Lewis Daken	14	9.26.04				2.15.05	Recommended by Assoc. Charities—Extended	9. 1.05	
Nora Schline	13	10.31.04				2. 1.05	Three in family depending on mother for support		
Charley Braudewick	13	9. 8.04				1 and 2	Large family with no father. Re-turned	1. 1.05	
Lyman Lelch	15	5. 8.05				9. 1.05	Has a good position, but will return to school if thought best		
Emil Kausel	15	5.10.05				9. 1.05	Recommended by Assoc. Charities		
Webster School.									
Octavia Baribeau	13	12.16.04				1. 1.05	Father is in Wisconsin and sends no money home. Ex	9. 1.05	
Louis Mitchell	14	12.12.04				1. 1.05	Father spends mostly what he earns to save an eye. Ex	9. 1.05	
Harry Delewarase	14	3.29.05				1. 9.1.05	Mother a widow with two other children to support		
Hamle Balllergern	14	4. 6.05				1. 9.1.05	Nine in family and father gets only \$10.50 per week		
Frank Fournier	14	4. 6.05				1. 9.1.05	Father works at Tribune office at \$11.00 per week—four in family		
Francis Giron	14	4. 6.05				1. 9.1.05	The father crippled and family in bad condition		
Tancred Papillon	13	4. 7.05				1. 9.1.05	Ten in family. Boy returned	4.24.05	
Caspar Budd	15	4.13.05				1. 9.1.05	Assist widowed mother		
Oscar Anderson	14	4.25.05				1. 9.1.05	Mother a widow and sick		
Wm. Stewart	14	5. 5.05				1. 9.1.05			
James Thompson	14	4.27.05				1. 9.1.05			

TABLE 1 (b)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment	Occupation Child was to take up	Reason for Granting Permit	Expiration of Permit	General Remarks	Permit on Date	Received to date
	Years	Months								
John Werner	14	8	.....	10. 2. 04	Mpls. Furniture Co.	1	1. 22. 05	Father was run over.	.....	.....
Oscar Fredin	14	4	.....	10. 10. 04	Employed in buggy fac'y	1	1. 21. 05	Has to assist family	.....	.....
Joseph Gagne	14	11	.....	10. 13. 04	Mpls. Furniture Co.	1	1. 21. 05	Has 3 mos. certificate from Electric	.....	.....
Hugo Larson	15	6	.....	10. 24. 04		1	1. 22. 05	Business College. Recommended by Assoc. Charities	.....	.....
Jas. Phillip Sagner	15	7½	.....	11. 7. 04	At a chemist's.	1	1. 1. 05	Extended	.....	9. 1. 05
Roland Kable	15	3	.....	9. 1. 04	Kimball Printing Co.	8	1. 21. 05	Left in Jan. to study with minister.	.....	.....
Matilda Harmmarstadt	14	10	.....	11. 17. 04		.....	9. 1. 05	Has been in 8th grade in parish school	.....	.....
Joseph Ney	14	11	.....	12. 1. 04	Powell's Dept. Store.	.....	1. 1. 05	Works during holidays. Eight in family. Father's work irregular.	.....	.....
Arthur Moe	13	6	.....	12. 8. 04		.....	1. 1. 05	Father doesn't live with family and mother sick part of time.	.....	.....
Edward Dinsmore	14	1	.....	1. 6. 05	The "Leader."	1	9. 1. 05		.....	.....
Summer School.										
Edward Monahan	14	6½	.....	5. 1. 05	In printing office.	.....	9. 2. 05		.....	.....
James Toudt	13	.....	.....	4. 13. 05	A. D. T. messenger.	.....	4. 23. 05		.....	.....
Harry Klingberg	14	.....	.....	4. 11. 05	Plymouth.	.....	4. 24. 05		.....	.....
John Hanson	15	1	.....	3. 25. 05	Clark's Box Factory.	1	9. 1. 05	Orphan—must support himself.	.....	.....
Oscar Green	15	.....	.....	3. 24. 05		.....	.....	Summer school closed for repairs.	.....	.....
Harry Green	14	4	.....	3. 16. 05	Clark's Box Factory.	.....	.....	Returns when school re-opens.	.....	.....
Harry Kurland	14	8	.....	2. 8. 05	Tailor shop.	.....	.....	Attending night school.	.....	.....
John Wilder	14	11	.....	1. 25. 05	Plymouth.	.....	.....	Attending night school.	.....	.....
Elmer Turgen	14	6	.....	1. 10. 05	N. American.	.....	9. 1. 05		.....	.....
James Duff	13	6	.....	9. 15. 04	Moss Bros.	.....	.....		.....	.....
Freda Crown	14	7	.....	9. 23. 04		.....	1. 22. 05	Extended	.....	.....
William Thompson	14	5	.....	11. 23. 04	Mpls. Dry Goods Co.	.....	1. 21. 05		.....	.....
Sam Larkin	14	6	.....	10. 18. 04		.....	1. 1. 05		.....	.....
Phinias Israel	15	.....	.....	10. 4. 04		.....	1. 1. 05		.....	.....
Jos. Foley	15	6	.....	9. 12. 04		.....	1. 27. 05		.....	.....
Jus. Carroll	15	6	.....	9. 9. 04		.....	1. 21. 05		.....	.....

Peabody School.

Annie Balok
 Annie Christenson
 Anton Nehring
 Annie Tamoly
 Coleman Malone
 Lally Benson
 Russell Courteney
 Florence Olcha
 Mary Wida
 Anna Jngold
 John Tlman
 Charlotte Swanson

Corcoran School.

Anna Golsat
 Geo. Brockman
 Carl Ostberg

Holland School.

Herman Steinfield
 Hjalmar Russell
 Alfred Martinson
 Mayland Horneland
 William Honenwell
 John Pelak
 Ella Kulkander
 Edgar Merango

Lowell School.

Rose La Belle
 Willie Hine
 Chas. Richardson
 Jesse Huber
 Louis Descutelle
 Harold Thompson
 Nessie Hutchins
 Phillip Clapp
 Eugenia Roeder
 Bernard Quime
 George King
 Frank Ingalls

13	9	6. 5. 06	New Store.	1	9. 1. 06	Family need help.	1	9. 1. 06	Family need help.
15	11	6. 5. 06	New Store.	1	9. 1. 06		1	9. 1. 06	
13	7%	6. 5. 06	Clark's Box Factory.	1	9. 1. 06	Hospital for five months. Thought	1	9. 1. 06	Hospital for five months. Thought
15	7%	9. 6. 04		2	1. 1. 06	work would do him good.	2	1. 1. 06	work would do him good.
14	7	9. 7. 04		3	1. 1. 06	Member of ungraded school. Thought	3	1. 1. 06	Member of ungraded school. Thought
14	6%	11. 21. 04		1	1. 06	Poverty. Revoked within a month.	1	1. 06	Poverty. Revoked within a month.
15	7	3. 2. 06		1	9. 1. 06	Issued on letter of recommendation	1	9. 1. 06	Issued on letter of recommendation
14	3%	4. 11. 06		1	9. 1. 06	from physician	1	9. 1. 06	from physician
14	7	4. 12. 06		1	9. 1. 06	Father an invalid	1	9. 1. 06	Father an invalid
13	8	5. 3. 06		1	9. 1. 06	Mother an invalid	1	9. 1. 06	Mother an invalid
13	11%	5. 9. 06		1	9. 1. 06	Assoc. Charities	1	9. 1. 06	Assoc. Charities
				1	9. 1. 06	Illness in family. Case investigated by	1	9. 1. 06	Illness in family. Case investigated by
				1	9. 1. 06	Assoc. Charities	1	9. 1. 06	Assoc. Charities
				1	9. 1. 06	Father sick	1	9. 1. 06	Father sick
				1	9. 1. 06	Mother an invalid	1	9. 1. 06	Mother an invalid
15		9. 19. 04	House maid.		9. 1. 06	In 2d grade and unable to learn.		9. 1. 06	In 2d grade and unable to learn.
15	5	9. 19. 04				Ill and needs outdoor freedom. Will re-			Ill and needs outdoor freedom. Will re-
14	8	5. 15. 05	Mpls. Dry Goods Co.		9. 5. 06	turn 2d semester		9. 5. 06	Request of Inspector.
14	11	5. 8. 06	Mpls. Furniture Co.	1	9. 5. 06		1	9. 5. 06	
15	2	4. 23. 05	Screen door factory.	1	9. 5. 06		1	9. 5. 06	
12	9	4. 23. 05	Plymouth Clothing Co.	1	9. 5. 06		1	9. 5. 06	
14	5	4. 27. 06	Watts Machine Co.	1	9. 5. 06		1	9. 5. 06	
14	4	3. 16. 06		1	5. 1. 06		1	5. 1. 06	
14	9	3. 20. 05	Swift's Packing Co.	1	9. 3. 06		1	9. 3. 06	
15	9	11. 8. 04			1. 20. 05	Help needed to support family.		1. 20. 05	Help needed to support family.
15	10	10. 27. 04			12. 20. 04	Will soon be 16.		12. 20. 04	Will soon be 16.
14	9	10. 4. 04	N. Star Boot & Shoe Co		9. 1. 06	Necessity of working		9. 1. 06	Necessity of working
14		11. 1. 04	Thomas'		1. 1. 06	Need of work		1. 1. 06	Need of work
14	3	12. 6. 04	Mpls. Dry Goods Co.	1	9. 1. 06		1	9. 1. 06	
14	9	3. 24. 05	Bonsford Woodword Co	1	9. 1. 06		1	9. 1. 06	
15	1	3. 14. 06		1	9. 1. 06		1	9. 1. 06	
13	2	2. 23. 06	Harrison & Smith.	1	9. 1. 06		1	9. 1. 06	
15	10	2. 23. 06	Hennepin Laundry.	1	5. 2. 06		1	5. 2. 06	
14	6	6. 2. 06		1	9. 1. 06		1	9. 1. 06	
15	2	5. 23. 05	New Store.	1	9. 1. 06		1	9. 1. 06	
15	4	5. 16. 06	Bradshaw Bros.	1	9. 1. 06		1	9. 1. 06	
14	4	5. 15. 06	N. D. T.	1	9. 1. 06		1	9. 1. 06	
15	2	5. 3. 06	New Eng. Furniture Co.	1	9. 1. 06		1	9. 1. 06	

TABLE I (b)—Continued.

Name of Child	Age when Leaving School		Grade last was in	Date of Em- ployment Permit	Occupation Child was to take up	(*) Reason for Granting Permit	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Lowell—Cont'd.										
Stuart Burt	14	11		5. 2. 05	New Eng. Furniture Co		9. 1. 05			
Archie Campbell	15	4		4. 8. 05	Amer. Linen Supply Co.	1	9. 1. 05			
John Marquardt	14	9		4. 24. 05		1	9. 1. 05			
Ethel Hamlin	15	10		2. 2. 05		1	3. 9. 05	Her help required at home.		
Logan School.										
Ernest Waldt	13	9		10. 3. 04	Matt-Kaehn's Bk'g.		11. 2. 04	Extended		9. 1. 05
George Waldt	13	9		5. 9. 05	Matt-Kaehn's Bk'g.	1	9. 5. 05			
Anna Radtke	14	10		2. 25. 05	Western Union Tel. Co.	1	9. 1. 05			
Walter Lundahl	14			5. 1. 05			9. 5. 05	Went to country for health.		
Eugene Praeter	14	11		4. 25. 05	Flour City Truck Co.	1	9. 1. 05			
Carl Sundquist	15	2		4. 11. 05	Rum River Boom Co.	1	9. 5. 05	Help support his mother.		
Gideon Horglund	13	10		3. 23. 05	Mpls. Dry Goods Co.	1	9. 1. 05	Worked one month, then sent to the country		
George Stodick	15	5		5. 4. 05	Amer. Baby Carriage Co		9. 5. 05	To learn trade		
Louise Oxborough	14			5. 10. 05	Clark's Box Factory.	1	9. 5. 05			
Lloyd Lowe	14	3		5. 1. 05	J. W. Thomas.	1	9. 1. 05			
Chester Moe	14	6		12. 19. 04		1	9. 1. 05			
Wm. Johnson	13	8		1. 23. 05	Nickel Shoe Co.	1	9. 1. 05			
Carl Swanson	15	9		1. 23. 05	New Eng. Furniture Co.	1	5. 1. 05	Returned to school		
Daniel Keher	12	7		12. 15. 04	Shirt waist factory.	1	1. 2. 05			
Theresa Nantzinger	15	9		10. 3. 04	North Star Clothing Co.	1	1. 16. 05			
Foust Gibbs	14	6		5. 17. 05	Glass Block.	1	9. 5. 05			
Bessie Wyman	15	6		9. 15. 04	Dayton Dry Goods.	1	11. 1. 04			
Johnes Stohog	14	11		9. 15. 04			1. 22. 05	In the interest of the schools.		
Herbert Lee	14	4		9. 14. 05			1. 2. 05	Has since left the city, gone east to live		
Emerson School.										
Selma Peterson	15	2		3. 31. 05		1	9. 5. 05			
Hazel Locke	14	2		3. 28. 05		1	9. 1. 05			
Ralph Dugan	14	11		10. 28. 04		1	9. 1. 05			
Roy Harris	11	9		3. 24. 05		2	4. 15. 05			
Morris Callis	15			1. 9. 05		1	4. 24. 05			

13	11	10. 4.04				21 1. 1.05	
14	6	1. 2.06				1 9. 1.05	
15	11	11. 15.04				1 1. 1.05	
16	1	5. 29.05				1 9. 5.05	
14		5. 15.06				2 9. 5.05	
Longfellow School.							
15	6	9. 1.04			Steel works.	1 2.17.05	Family need his services.
13	4	9. 1.04			Mpls. Dry Goods Co.	1 1. 1.05	Eas certificate from doctor that her eyes are too weak for study. Extended.
15	5	9.—04				1	Girl too weak be 16. Mother a widow and a cripple.
14	3	9. 6.04			Plymouth Clothing Co.	1 1. 1.05	Returned to school.
12	9	9. 6.04			Jno. W. Thomas.	1 1. 1.05	Returned to school.
14	11	9. 8.04				1 1. 1.05	Six in family and boy must earn own living.
14	1	9. 7.04			N. W. Tel. Co.	1 1. 1.05	Sickness in family. Returned to school.
15	5	9.—04			Steel works.	1 3.16.05	Mother was in school and explained situation.
14	9	9.11.04			Hall Novelty Co.	118. 1.05	Returned to school.
14	7	9.13.04			Plymouth Clothing Co.	111.30.04	Renewed to school.
13	1	9.12.04			Model Clothing Co.	1 9.24.04	Returned to school.
14	10	9.13.04				1 1. 1.05	Mother is widow. Needs boy's help.
15	4	9.15.04			Mpls. Knitting Works.	1 5.31.05	Girl will be 16 when permit expires.
15	9	9.19.04			Steel works.	.....	Takes no interest in school. Will be 16 in Dec., '04.
15	5	9.20.04			Confectioneries.	4.20.05	Takes no interest. Will drop out when 16 in April.
15	10	10.10.04			C. J. Halgaard & Co.	12. 4.04	Girl will be 16 in December.
15	9	9.22.04			New Store.	12.10.04	Mother called at school and explained.
16	3	9.23.04			Candy company.	6.15.05	Will go to business school when 16.
13	7	9.28.04				1 1. 1.05	Mother very sick. Returned to school.
15	5	9.23.04			Worked for contractor.	5.21.05	Girl will be 16 in May.
14	5	9.23.04				10.31.04	The father was sick. Boy returned to school.
15	5	9.30.04			Chamber of Commerce	3.15.05	Boy will be 16 in March.
12	10	10. 4.04			Barnaby's Clo. Store.	1 1. 1.05	Mother is widow with seven children. Returned to school.
14	8	10. 5.04			In father's dairy.	9. 1.05	Letter from pastor. Family in poor circumstances.
15	7	10.17.04			Mpls. Steel & Mach. Co.	1 3.30.05	Boy nearly 16. Has good position.
15	10	10.27.04			Slocum-Bergen Grocery	112.16.04	Boy 18 in Dec. Large family—need his help.
15	6	11. 7.04			Steel works.	11 4.29.05	Will be 16 in April.
15	1	11.21.04			North Star Woolen Mills	112.25.04	Will be 16 in Dec. Has chance to learn tailor trade.
14	4	12. 1.04			Carlson Millinery.	1 1. 1.05	Has left the city.
15	6	12. 1.04				5.13.05	Almost 16—has chance to learn trade.

TABLE I (b)—Continued.

Name of Child	Age when Leaving School		Grade Child was in	Date of Employment	Occupation Child was to take up	Reason for Granting Permit	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Longfellow—Cont'd.										
Hazel Goodman	15	3		12.16.04	In father's store		10. 8. 05	Doctor's certificate says she must not attend school		
John Hertner	15	10		1. 3. 05	Publishing Co.		3. 4. 05	Almost 16. Has good position.		
Over Burke	15	4		1. 3. 05	Minneapolis Transfer Co.		6.10.05	Mother dead. Assoc. Charities recommend permit		
Thomas Carter	15	7		3.30.05	Cody's printing office		9.16.05	Boy not getting much out of school. Will be 16 in September.		
James Ford	14	5		4.13.05	Pittsburg Glass Factory	1	9. 5. 05	Boy is lazy and spoiled by his mother.		
Frank Moore	14			4.24.05	Globe Printing Co.	1	9. 5. 05	Family very poor—nine children.		
Carl Lillquist	15			4.26.05	New England Cloth. Co.	1	9. 5. 05	Has no one to support him in this country		
William McDermott	14	9		5.15.05	Bill posting.		6. 9. 05	Boy can't make his grade. Has good job for summer		
Sheridan School.										
Percy Jones	14	2		6. 5. 05		1	9. 5. 05	Not working yet. Has to clothe himself		
Hening Larson	14	7		6. 1. 05	N. D. T. Company	1	9. 5. 05	To help support family		
Ruby Burling				6. 1. 05	Towel Exchange.	1	9. 5. 05	To help support family		
Lillie Miller	13	5		4.23.05	Dayton's Dry Goods Co.	3	9. 5. 05	To help support family		
Walter Benson	15	6		6. 6. 05	N. D. T. Co.					
John Sheffield	14	2		6. 6. 05	N. D. T. Co.	1	9. 5. 05	To clothe himself		
Seward School.										
Oscar Oman	14	4		4. 8. 04		1	9. 1. 04	Extended. Entered school in Jan., '05		10. 1. 05
Chas. Hope	15	4		4.22.04		1	9. 1. 04	Extended. Will be 16 in Jan., '05.		1—05
Melvin Hangers	15			5.23.04		1	9. 1. 04	Extended to—		10.31.04
George Wallen	12	10		9. 8. 04		1	10. 5. 04	Extended to—		3.10.05
Fred Lund	14			10.17.04		2	1. 06	Extended to—		6.30.05
Harris Christian	14			10.22.04	Newsboy on train.	1	2. 1. 05	Extended		6.30.05
Dora Hanson	15	3		9.12.04			1—05	Remain at home		
Martin Swanson	15		8th		Employed.		9—05			
Kate Suess	14			12. 8. 04		1	1. 05	Entered school Jan. 1st, '06.		1. 05
Alva Swanson	15			12. 2. 04		1	6.30.05			

Frank Flynn	15	11.14.04	Employed.	1 1.31.05	Completed all but three weeks work in 8th grade.	1.1.05
Henry Lund	15	1.31.05	Employed.	1 6.15.05	School has certificate of attendance at night school.	1.1.05
David Anderson	15	1.31.05	N. D. T. Co.	1 6.30.05	Home with mother. Advised by Charity Asso.	1.1.05
Bernard Sloborg	15	12.4.04	Hoffman's.	1 6.30.05	Very needy.	1.1.05
Eva Radstrom	15	9.15.04	In store Plymouth.	1 2.1.05	Read to minister.	1.1.05
John Kelly	14	3.13.05	Knapp & Co. Printers	1 6.30.05	Needy case.	1.1.05
Elmer Jackson	14	3.7.05	Plymouth.	1 6.15.05	Help mother at home.	1.1.05
Frank Carlborn	15	3.5.05	Thomas.	1 6.30.05	Needy case.	1.1.05
Carl Sues	14	2.9.05		1 6.15.05	Mother very worthy and needy.	1.1.05
Georgia Kasper	15	3.15.05		1 9.1.05	Will be 16 in Jan. Extended to 1.1.05	1.1.05
Andrew Larson	15	3.15.05		1 6.15.05		
Hugh Dole	15	3.30.05		1 9.1.05		
Nels Garbald	15	4.3.05		1 6.15.05		
Esther Fredell	15	4.5.05		1 9.1.04		
Walter Riley	15	4.14.05		1 6.15.05		
Wayne Daniels	15	4.13.05		1 6.15.05		
Clarence Anderson	15	4.14.05		1 6.15.05		
Bert Englebretsen	15	5.8.05	Bras's Picture Co.	1 6.15.05		
Oscar Swanson	15	5.8.05	Western Union	1 6.15.05		
Emil Nelson	15	5.11.05	Working for City.	1 6.15.05		
Owen Morris	14	5.1.05	Western Union	1 6.15.05		
Garfield School.						
Ida Wick	15	9.2.04		1 1.05	Poverty	1.1.05
Layton Wheaton	14	9.6.04		11 1.04	Poverty. Returned to school.	1.1.05
Clara Wick	15	9.6.04		1 1.05	Poverty	1.1.05
Robert Burdick	15	9.12.04		1 1.05	Helping at home.	1.1.05
Wallace Petri	15	9.14.04		1 1.05	Earning clothes. Promised to return	1.1.05
Elsie Schoneman	14	9.14.04		1 23.05	Did not	1.1.05
Wm. Nelson	14	9.14.04		1 31.05	Poverty	1.1.05
Ellen Gunderson	15	12.12.04		1 1.05	Moved away	1.1.05
Arthur Howard	14	9.12.04		1 31.05	Returned to school.	1.1.05
Agnes Hoffman	14	9.6.04		1 1.05	Poverty	1.1.05
Agnes Peterson	14	9.1.04	A. D. T. Co.	1 1.05	Poverty	1.1.05
Ralph Olson	14	3.27.05		6.15.05	Poverty	1.1.05
Rudolph Peterson	15	3.27.05		6.30.05	Death of parent. Returned to school.	1.1.05
Van Cleave School.						
Ida Bye	14	9.2.04		9.5.05	Studying with minister.	1.1.05
Leon Sakulaki	14	9.24.04	Palace Clothing Co.	11 1.04	Attends Polish school.	1.1.05
Royal Farwood	14	10.8.04	Lloyd Manufacturing Co.	1 1.07.05		1.1.05
Henry Felsman	15	10.11.04	N. A. Tel. Co.	1 1.08.04		1.1.05
Harry Saude	14	11.2.04	Postoffice, City.	1 1.3.05	Has to support mother.	1.1.05
Mabel Ames	15	11.14.04	Mpls. Dry Goods Co.	1 1.3.05		1.1.05

TABLE I (b)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to take up	Reason for Granting Permit ^(a)	Expiration of Permit	General Remarks	Permit	Re-
	Years	Months							on Date	ceived to Date
Van Cleave—Cont d.										
Carl Soll	14	8	.....	11.15.0	fendrickson's butch. shop	.....	1. 4.05	Extended to.....	.....	9. 5.05
Harry Lofgren	13	5	.....	12.16.0	Thomas & Co., dry goods	.....	1. 1.25	Extended to.....	.....	9. 5.05
Verne Robinson	14	.....	.....	12.13.0	A. D. T. Co.	.....	1. 1.23	Extended to.....	.....	9. 5.05
Wm. Hall	15	10	.....	2.13.0	Bosfield's Tub Factory.	.....	1. 9.1.05	.....	.....	.....
Albert Cheney	14	9	.....	2.23.0	In wood office.	.....	1. 9.1.05	.....	.....	.....
James Roussin	14	5	.....	4. 3.0	Mpls. Dry Goods Co.	.....	1. 9.5.05	.....	.....	.....
Sever Clark	13	7	.....	4.12.0	.....	.....	1. 9.5.05	Recommended by Deputy Comdr.	.....	.....
Bertram Jenkins	14	1	.....	4. 9.0	Tub factory.	.....	1. 9.1.04	Renewed to.....	.....	9. 1.06
John Couley	12	1	.....	5.15.0	.....	.....	1. 9.5.05	Permit recommended by Factory In-	.....	.....
Carl Bye	13	5	.....	5.31.0	Bedding factory.	.....	1. 9.5.05	Permit recommended by Factory In-	.....	.....
Carl Johnson	14	1	.....	11.22.0	.....	.....	2. 9.5.05	Attending night school.	.....	.....
Carl Hinberg	15	7	.....	6. 1.0	Errand boy.	.....	.....	.....	.....	.....
Myles Tierney	14	11	.....	6. 6.0	.....	.....	.....	.....	.....	.....
Rudy Knobel	14	9	.....	5.31.0	Tub factory.	.....	2. 9.5.05	.....	.....	.....
Ray Peck	15	3	.....	9.13.0	.....	.....	.....	.....	.....	.....
Ernest Clarquist	13	1	.....	12.15.0	.....	.....	1. 1.05	.....	.....	.....
Bert Shelley	13	9	.....	4.28.0	.....	.....	1. 1.20.05	.....	.....	.....
Edward Kelley	13	.....	.....	12.16.0	.....	.....	1. 1.5.05	.....	.....	.....
Clarence Hager	14	.....	.....	12. 6.0	.....	.....	1. 1.22.05	.....	.....	.....
Albert Sullivan	14	8	.....	9.22.0	.....	.....	1. 9.5.05	.....	.....	.....
Hans Kolbjornsrud	14	11	.....	4.24.0	.....	.....	1. 9.5.05	.....	.....	.....
Daniel Hart	14	9	.....	9.12.0	Work in printing office	.....	1. 10.12.04	Extended	.....	.....
Nellie M. Young	14	1	.....	9. 2.04	Cash girl in store.	.....	1. 9.1.05	.....	.....	.....
Lawrence Harvey	15	2	.....	12. 8.0	.....	.....	1. 9.1.05	.....	.....	.....
Agnes Nyhus	15	4	.....	4. 3.0	Work in dressmaking est.	.....	1. 9.1.05	.....	.....	.....
Florence Gerhart	15	1	.....	2. 3.0	To work in dye house.	.....	1. 6. 6.05	.....	.....	.....
Ernest Lower	15	.....	.....	3.20.0	In woodworking establish.	.....	1. 9.5.05	.....	.....	.....
William Larson	14	.....	.....	2. 3.0	.....	.....	1. 6.10.05	Permit recommended by Labor Com-	.....	.....
Carl Albrecht	14	3	.....	3. 9.05	.....	.....	1. 6. 9.05	missioner	.....	.....
Ferdinand Gabert	14	8	.....	5.24.05	Messenger in telegr. office	.....	2. 9. 5.05	.....	.....	.....
Henry Wolfram	14	3	.....	5.29.05	Messenger in telegr. office	.....	.....	.....	.....	.....
Frank Glaser	13	10	.....	6. 6.05	Messenger in telegr. office	.....	2. 9. 5.05	.....	.....	.....

Leslie Keeney	14	6.9.05	In sash factory.	9.5.05	Work during vacation.....	5.10.05	9.5.05
Godfrey Johnston	14	6.8.05	In dry good store.	9.5.05	Work during vacation.....	5.10.05	9.5.05
Raymond Barton	15	5.2.05	Messenger in tel. office.	3	.....	.....	.....
George Miller	15	5.5.05	With father, carpentering	4	.....	.....	.....
Walter Leslie	12	5.10.05	In bakery.	.....	.....	.....	.....
Arthur Froese	13	6.9.05	.....	.....	.....	.....	.....
Harry Running	14	6.9.05	In sash factory.	.....	.....	.....	.....
Gus Johnson	14	4.13.05	.....	.....	.....	.....	.....
Raymond Maken	13	9.12.04	.....	.....	.....	.....	.....
Leonard Danielson	13	6.3.05	.....	.....	.....	.....	.....
Ella Brey	11	5.18.05	.....	.....	.....	.....	.....
Dumont Weston	10	4.26.05	.....	.....	.....	.....	.....
Jay Hall	14	3.1.05	.....	.....	.....	.....	.....
Arthur Stromberg	14	3.1.05	.....	.....	.....	.....	.....
Bert Wilson	15	6.9.05	.....	.....	.....	.....	.....
Fred. Peterson	15	6.9.05	.....	.....	.....	.....	.....
Howard Colby	14	5.31.05	In printing office.	.....	.....	.....	.....
Harry Wanzer	12	6.9.05	In printing office.	.....	.....	.....	.....
George Reid	15	5.23.05	In linseed oil mill.	.....	.....	.....	.....
Walter Olsen	14	5.25.05	At Postoffice.	.....	.....	.....	.....
Fredolph Lundquist	15	5.23.05	In extract factory.	.....	.....	.....	.....
Archib Loberg	17	5.23.05	In dry goods store.	.....	.....	.....	.....
Walter Cool	15	5.23.05	In paint store.	.....	.....	.....	.....
Edward Zetter	15	6.9.05	In furniture factory.	.....	.....	.....	.....
Archie Kort	15	6.9.05	.....	.....	.....	.....	.....
Franklin Harrison	15	6.1.05	.....	.....	.....	.....	.....
Sigvol Fleskode	15	5.21.05	.....	.....	.....	.....	.....
Carl Wilson	15	5.25.05	.....	.....	.....	.....	.....
Sarah Berg	15	5.23.05	.....	.....	.....	.....	.....
Oscar Kingley	15	12.9.04	.....	.....	.....	.....	.....
Hildur Linde	15	12.9.04	.....	.....	.....	.....	.....
Hubert Phillips	13	5.14.05	.....	.....	.....	.....	.....
Edwin Tunquist	13	12.1.04	.....	.....	.....	.....	.....
Alton Lungren	13	12.1.04	.....	.....	.....	.....	.....
Th. Anderson	13	12.13.04	.....	.....	.....	.....	.....
Edw. Hamman	13	4.14.05	.....	.....	.....	.....	.....
Harry Brestrup	15	4.24.05	.....	.....	.....	.....	.....
Arthur Quist	15	3.10.05	To work in cooper shop.	.....	.....	.....	.....
Halmar Iverson	15	2.23.05	To learn trade.	.....	.....	.....	.....
Earl Koontz	15	3.6.05	To help mother.	.....	.....	.....	.....
Harold McDermott	13	2.21.05	At Int. Stock Food Co.	.....	.....	.....	.....
Arthur Steiner	15	1.9.05	.....	.....	.....	.....	.....
Roy Kaiser	15	11.18.04	.....	.....	.....	.....	.....
Roy Kupfer	15	11.28.04	.....	.....	.....	.....	.....
Wm. Matzek	14	10.24.04	.....	.....	.....	.....	.....
Selmer Johnson	14	9.29.04	.....	.....	.....	.....	.....
Myrtle Mitchell	15	9.29.04	.....	.....	.....	.....	.....
Frank Johnson	15	9.27.04	.....	.....	.....	.....	.....
Her Durand	15	9.23.04	.....	.....	.....	.....	.....
Her Bruce	15	9.19.04	.....	.....	.....	.....	.....

TABLE 1 (b)—Continued.

Name of Child	Age when Leaving School		Grade Child was in	Date of Employment	Occupation Child was to take up	Reason for Permit	Expiration of Permit	General Remarks	Permit	Re-
	Years	Months							on Date	ceived
Van Cleave—Con'd.										
Ida Butler	14	4		9.15.04			1.10.31.04			
Frank La Belle	15	4		9.15.04			9.1.05			
Anna Lukritz	15	2½		5.10.05	Department store.		1.9.5.05			
Lloyd Foster	14	10		6.8.05	Furniture factory.		1.9.1.05			
John Scrivner	14	11		6.5.05			1.9.1.05			
Harry Farrow	13	10		6.2.05	Carriage factory.		1.9.1.05			
Stephen Quind	14	5		5.22.05	Bedding factory.		1.9.1.05			
Alfred Lee	14	3		5.25.05			9.5.05			
Tuttle School.										
Gerda Anderson	14	8		5.15.05	Laundry work.		1.9.1.05			
Frank Wolf	14	5		1.19.05	Woodworking establ.		1.9.1.05			
Paul Schroeder	15	5		9.6.04	Bedding factory.		1.20.05			
George Cram	15	5		3.7.05	Stock food factory.		1.9.5.05			
Michael Anningsham	13	8		12.16.04	Department store.		1.1.1.05	Returned to school.		
Frank Gustafson	14	7		1.15.05	Paper box factory.		1.1.1.05	Extended	3.1.05	9.5.05
Grace Randolph	15	9		10.7.04	Nurse girl.		1.1.9.05			
Geo. Randolph	14	6		9.6.04	Clothing store.		1.1.1.05	Extended	1.3.05	9.5.05
Greeley School.										
Hugo Martin	14			4.24.05			1.9.1.05			
Bart Sullivan	14			4.10.05	At carpet store.		1.9.3.05			
Arthur Bloomquist	14	1		6.7.05	At dry goods store.		1.9.1.05			
Henry Eastman	15	1		5.3.05	At department store.		1.9.1.05			
Harold Sather	14			5.9.05	At grocery store.		1.9.1.05			
Albert Strom	14			5.25.05	At clothing store.		1.9.1.05			
John Hamner	14	2		4.3.05			1.9.3.05			
Joe Galdonic	14	1		4.5.05	baby carriage factory.		1.9.1.05			
Arthur Fowell	14	11		5.25.05	In Printers Supply's store		1.9.1.05			
Sidney Pratt School.										
Annie Shema	14	3		9.12.04			1.25.05	Extended	3.20.05	9.5.05
Martin Halberg	15			1.31.05			1.9.1.05			
Edward Olson	14	3		3.2.05			1.9.1.05			

[illegible]

TABLE I (b)—Continued.

Name of Child	Age when Leaving School		Trade (Child last was in)	Date of Employment Permit	Occupation Child was to take up	Reason for Permit (Granting)	Expiration of Permit	General Remarks	Permit	Received
	Years	Months							on	Date
Bremer—Cont'd.										
Adolph Norquist	15	9		4:14.05		1	1			
Mamie Rankup	15	1		4:14.05		1	1			
James Clark	14	9		4:24.05		1	1			
Ernest Besemann	14	6		5:22.05	Works in tub factory.		1	9.5.05		
Arthur Child	14	8		4:23.05	Works in box factory.		1	9.5.05		
Mike Semanko	14	8		1:4.05	Works in tub factory.		1	9.5.05		
Joe Rogers	15	9		3:20.05	Works in tub factory.		1	9.5.05		
Joseph Gornulik	14			4:5.05	Special deliv., postoffice.		1	9.6.05		
Richard Russell	15	11		4:14.05	Works in tub factory.		1	9.6.05		
George Sutmark	14			5:4.05	Works in brick yard.		1	9.1.05		
Willie Johnson	14	5	4	2:10.05	N. A. D. T. Co.		1	9.1.05		
Edward Blesiesvitz	13	3	N	1:26.05			1	9.1.05	Extended to	6.5.05
Pauline Podang	14	6		9:25.04	Works in tub factory.	1 and 2	3	9.5.05	Permit renewed until	9.5.05
Elmer Griffin	13	5		4:3.05	To work in dry goods store		1	1:21.05		
Ole Larson	13	8		12:2.04	In sash factory.		1	9.5.05		
Clarence Nelson	14			4:27.05	Messenger N. D. T.	1 and 2	4	9.5.05		
Franklin Willis	15	7		5:1.05	Messenger N. D. T.	1 and 2	4	9.5.05		
Herman Macknick	11	2		4:6.05	In lumber mill.	1 and 2	1	9.5.05		
George Kolsadt	15	9		5:23.05	In lumber mill.	1 and 2	1	9.5.05		
Ernest Helvig	15	2		5:12.05	Department store.	1 and 2	1	9.5.05		
Kate Hervig	13	10		5:4.05			1	10.1.05		
Edward Turnquist	15	8		5:4.05			1	9.1.05		
James Cole	15		8th	5:31.05			1	9.1.05		
Wm. Pringer	14	11	8th	9:8.04			1	1.1.05		
Walter Lindberg	14	7		4:4.05			1	4.1.05		
Carl Beylund	15	4		4:6.05			1	9.—.05		
Oscar Olson	15			4:12.05			1	9.1.05		
Olaf Ness	14	10		4:23.05			1	9.1.05		
Earl Boardman	13	11		5:3.05			1	9.1.05		
William Wahlquist	14	10		5:9.05			3	9.1.05		
Lucy Gressman	15	9		5:10.05			1	9.1.05		
Elmer Strum	15		High Scho'l	10.3.04			1	9.3.05		
George Ward	14	10		1.3.04			1			
Rudolph Berglund	15	7	High Scho'l	9.20.04			1	1.20.05		

Clarence Benedict	13	.....	9. 7. 04	.....	3	6. —. 05	.....	.....	.....	.....
Warre Benedict	15	6	9.15.04	.....	1	6. 1. 05	.....	.....	.....	.....
Emily Patterson	15	1	9.15.04	.....	1	3. 1. 05	Extended	.....	.....	3. 7. 05
Elmer Jensen	14	9	10.28.04	.....	1	6. 1. 05	.....	.....	.....	8.23.05
Victor Modine	15	5	11.11.04	.....	.....	6.25.05	.....	.....	.....	.....
Yvonne Torrell	15	8	12. 6. 04	.....	1	4.14.05	.....	.....	.....	.....
Eric Malmberg	14	.....	12. 7. 04	.....	1	6.10.05	.....	.....	.....	.....
George Anderson	14	5	12.12.04	B5th	1	1.20.05	Extended	.....	.....	5.22.05
Wm. Iverson	15	9	2. 6. 05	.....	1	1.24.05	.....	.....	.....	9. 1. 05
Wm. Paquette	15	4	2.14.05	8th	.....	4. 1. 05	.....	.....	.....	.....
Ernest Nelson	14	7	4.10.05	.....	1 and 3	9. 1. 05	.....	.....	.....	.....
Harry White	13	.....	5.15.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Fred Down	14	9	5.15.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Agnes Anderson	15	4	5.19.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Harry Gates	15	3	10.24.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Edith Kline	15	1	11.25.04	.....	.....	9. 1. 05	.....	.....	.....	.....
Frank Johnson	15	.....	12. 1. 04	.....	.....	9. 1. 05	.....	.....	.....	.....
Florence Olson	15	4	12.15.04	.....	.....	9. 1. 05	.....	.....	.....	.....
Minnie Riesentz	15	.....	.....	.....	.....	9. 1. 05	.....	.....	.....	.....
Ralph Rehl	13	9	3. 3. 04	.....	.....	9. 1. 05	.....	.....	.....	.....
Adolph Abrahamson	13	11	4.25.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Emile Sirols	13	11	6. 1. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Walter Cool	14	11	5. 1. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Mary Burke	15	.....	9. 2. 04	.....	.....	9. 1. 05	.....	.....	.....	.....
Leon Sessions	15	5	9. 9. 04	.....	.....	9. 1. 05	.....	.....	.....	.....
John Reynolds	15	3½	9.12.04	.....	.....	9. 1. 05	.....	.....	.....	.....
Guy Huthrance	15	2	1. 2. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Louis Oelette	14	11	2.20.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Theodore Knudtson	14	8	3.27.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Ralph Elliott	13	6	12. 6. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Ody Magee	14	.....	5.18.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Paul Peterson	15	.....	9.21.04	.....	.....	9. 1. 05	.....	.....	.....	.....
Harvey Bowers	16	.....	9. 9. 04	.....	.....	9. 1. 05	.....	.....	.....	.....
George Messig	13	8	5.10.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Nina Leonard	15	3	5. 5. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Albert Hamp	15	5	5. 4. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Wilfred Le Velle	15	.....	5. 4. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Arthur Paulson	14	4	5. 4. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Louis Engler	15	11	4.10.05	.....	.....	9. 1. 05	.....	.....	.....	.....
John Johnson	13	7	3.31.05	.....	.....	9. 1. 05	.....	.....	.....	.....
John Walden	15	2	3. 3. 05	B7th	.....	9. 1. 05	.....	.....	.....	.....
Albert Sullivan	15	4	4.17.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Daniel Noonan	14	6	4. 5. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Henry Hanson	15	.....	4.11.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Leonard Hanson	14	.....	5.15.05	.....	.....	9. 1. 05	.....	.....	.....	.....
Amos Flocky	15	8	5. 6. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Louis Norman	15	2	5. 1. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Elsworth Vashco	14	.....	6. 7. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Chalmar Gustafson	15	7	6. 9. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Luman Cole	14	8	6. 9. 05	.....	.....	9. 1. 05	.....	.....	.....	.....
Bundle wrapper.										
Bundle wrapper.										
Laundry work.										
At dry goods store.										
Printing office.										
Printing office.										
Box factory.										
In lumber yard.										
Flourist.										
Paper box factory.										
Department store.										
In woolen mill.										
Printing office.										
Department store.										
At U. S. Express Co.										
At Int. Stock Food Co.										
At A. D. T. Co.										
Store help.										
At drug store.										
At Street Car Co. office.										
At U. S. Express office.										
To sell newspapers.										
At florist's store.										
At furniture factory.										

TABLE I (b)—Continued.

Name of Child		Age when Leaving School		Grade Child last was in	Date of Em- ployment	Occupation Child was to take up	(*) Reason for Permit	Expiration of Permit	General Remarks	Permit	Re-
		Years	Months							on Date	ceived
Bremer—Cont'd.											
Agnes Peterson	15	5	.....	12.15.04	.....	.....	1	1.21.05	.....	.....	.....
Rex Conner	15	.....	.....	12.21.04	.....	.....	.....	1.21.05	Seven children in family.	.....	.....
John Lyngren	14	9	.....	3.27.05	.....	.....	1	9.1.05	Mother a widow.	.....	.....
Alfred Peterson	15	6	.....	4.23.05	Messenger at A. D. T.	.....	1	9.6.05	.....	.....	.....
Sam Conklin	16	.....	.....	5.22.05	.....	.....	2	12.1.04	.....	.....	.....
August Denell	14	6	.....	11.1.04	.....	.....	.....	2.1.05	Six children in family.	.....	.....
Robert Lynch	15	5	.....	11.1.04	.....	.....	.....	2.1.05	.....	.....	.....
Clarence Michelson	15	4	.....	10.31.04	.....	.....	1	1.1.05	.....	.....	.....
Amos Flochey	15	.....	.....	10.18.04	Work in dry goods house.	.....	1	1.1.05	.....	.....	.....
Henry Beck	14	7	.....	10.12.04	.....	.....	1	1.1.05	.....	.....	.....
Bennie Silver	15	8	.....	10.4.04	.....	.....	1	12.1.04	.....	.....	.....
Emil Forby	14	9	.....	10.3.04	.....	.....	1	1.1.05	.....	.....	.....
Louis Silverman	14	9	.....	10.5.04	.....	.....	3	1.1.05	.....	.....	.....
Maude Anderson	15	.....	.....	9.20.04	.....	.....	1	1.1.05	Mother a widow, four children to support.	.....	.....
Ralph Dochery	15	.....	.....	9.1.04	.....	.....	1	1.1.05	.....	.....	.....
Roy Gorrill	15	6	.....	9.21.04	.....	.....	2	1.1.05	Attending Y. M. C. A. night school.	.....	.....
Alex Johnson	15	8	.....	10.4.04	.....	.....	1	1.1.05	.....	.....	.....
Arthur Hiller	14	5	.....	9.15.04	Work in dry goods store.	.....	1	1.1.05	.....	.....	.....
Alfred Scherven	15	3	.....	9.15.04	.....	.....	2	6.10.05	Six children in family.	.....	.....
Alma Sporang	15	8	.....	9.14.04	.....	.....	2	1.1.05	.....	.....	.....
Edward Kline	15	4	8th	9.14.04	.....	.....	1	6.14.05	.....	.....	.....
Luther Lindell	14	9	.....	9.13.04	Work as mess. W.U.T. Co.	.....	1	1.1.05	.....	.....	.....
Geo. Sporrard	13	11	.....	9.12.04	.....	.....	1	1.1.05	.....	.....	.....
Rose Rosenberg	15	11	.....	9.12.04	Work in dry goods store.	.....	1	1.1.05	.....	.....	.....
Walter Anderson	15	3	.....	12.1.04	Work in clothing store.	.....	1	1.13.05	.....	.....	.....
Frank Cogswell	13	7	.....	5.5.05	In furniture factory.	.....	1	9.4.05	.....	.....	.....
Frank Grenier	14	5	.....	9.7.04	.....	.....	1	1.1.05	.....	.....	.....
Carl Schoberg	15	2	.....	9.8.04	Delivery boy.	.....	.....	1.1.05	Opportunity to work—permit renewed.	4.6.05	.....
John Drew	14	10	.....	5.17.04	Errand boy.	.....	.....	9.10.05	Opportunity to work.	.....	.....
John Drew	14	.....	.....	10. — .04	Ball boy at hotel.	.....	1	1.1.05	.....	.....	.....
Selma Swanson	13	4	.....	12.20.04	.....	.....	1 and 2	1.2.05	Returned to school.	.....	.....
Harold Brothers	12	1	.....	12.12.04	.....	.....	1 and 2	1.2.05	Returned to school.	.....	.....
Lily Schveneman	13	7	.....	12.12.04	.....	.....	1 and 2	1.2.05	Returned to school.	.....	.....
Katie Porter	12	5	.....	12.5.04	.....	.....	1 and 2	1.2.05	Returned to school.	.....	.....
Alvin Gerdin	14	4	.....	10.24.04	.....	.....	1 and 2	1.27.05	Returned before time mentioned.	.....	.....

Thomas Moss	11	12. 8. 04	To work in grocery store.	1 and 2	1. 3. 05	Renewed	9. 5. 05
Pedro Pederson	14	2. 24. 05	In sash factory.	1 and 2	9. 5. 05	Renewed	9. 5. 05
Leo Burns	14	3. 3. 05	In sash factory.	1 and 2	9. 5. 05	Renewed	9. 5. 05
Arthur Miller	15	3. 2. 05	In sash factory.	1 and 2	9. 5. 05	Renewed	9. 5. 05
Harry Sandberg	14	1. 23. 05	Dry goods store.	1 and 2	9. 5. 05	Renewed	9. 5. 05
Mary Erickson	13	1. 25. 05	In shoe store.	1 and 2	9. 5. 05	Renewed	9. 5. 05
Skurd Ingebretson	13	1. 4. 05	In sash factory.	1 and 2	9. 5. 05	Renewed	9. 5. 05
Roy Atkinson	14	2. 7. 05	In dry goods store.	1 and 2	9. 5. 05	Renewed	9. 5. 05
Thamar Seland	10	12. 9. 04	Messenger N. D. T.	1 and 2	1. 3. 05	Renewed	9. 5. 05
Helmer Egge	14	12. 7. 04	Messenger N. D. T.	1 and 2	2. 1. 05	Renewed	9. 5. 35
Washington School.							
Bertha Lee	15	9. 1. 04	Learning millinery trade.	1	1. 1. 05	Renewed	9. 1. 05
Edward Magnusen	14	9. 2. 04	Newspaper office.	1	1. 1. 05	Renewed	9. 1. 05
Jos. Walerius	15	8. 7. 04	Newspaper office.	1	1. 1. 05	Renewed	9. 1. 05
Harry Arnson	15	8. 7. 04	Department store.	1	1. 1. 05	Renewed	9. 1. 05
Clinton Dickenson	14	9. 7. 04	Union Hack & Mess. Co.	1 and 2	1. 1. 05	Attending Y. M. C. A. night school.	9. 1. 05
Esther Anderson	15	9. 13. 04	Department store.	1 and 2	1. 1. 05	Permit renewed	9. 1. 05
Willie Fisher	15	9. 13. 04	Jewelry store.	1	1. 1. 05	Permit recommended by Asso. Char	9. 1. 05
Harri's Smith	13	9. 13. 04	Jewelry store.	1	1. 1. 05	Permit recommended by Asso. Char	9. 1. 05
Chas. Bergquist	14	9. 23. 04	Messenger.	1	1. 1. 05	Renewed	9. 1. 05
Frank Lonsley	14	9. 27. 04	Messenger.	1	1. 1. 05	Attending Y. M. C. A. night school.	9. 1. 05
Alonso Sullivan	15	10. 31. 04	Work at sugar factory.	1	1. 1. 05	Attending Y. M. C. A. night school.	9. 1. 05
Leslie Hawkins	15	10. 24. 04	Messenger.	2	1. 1. 05	Renewed	9. 1. 05
Herbert Mandery	15	11. 23. 04	Printing office.	2	1. 1. 05	Renewed	9. 1. 05
Effe Strand	15	12. 8. 04	Department store.	1	1. 1. 05	Permit recommended by Asso. Char.	9. 1. 05
Elizabeth Peterson	14	12. 13. 04	Department store.	1	1. 1. 05	Renewed	9. 1. 05
Wm. Cook	15	2. 6. 05	Paint store.	1 and 2	9. 1. 05	Attending Y. M. C. A. night school.	9. 1. 05
Arthur Jepsen	15	3. 9. 05	Plating works.	1	9. 1. 05	Permit recommended by Deputy Com. of Labor.	9. 1. 05
Axel Paulson	15	3. 20. 05	Messenger.	1	9. 1. 05	Permit recommended by Asso. Char.	9. 1. 05
Wm. Hanson	15	4. 27. 05	Messenger.	1	9. 1. 05	Permit recommended by Asso. Char.	9. 1. 05
Geo. Ellis	15	5. 10. 05	Office work.	1	9. 1. 05	This boy attends school sessions and works after 4 p. m. and on Saturday	9. 1. 05
Chas Strand	13	6. 1. 05	Messenger.	1	9. 1. 05	Permit recommended by Asso. Char.	9. 1. 05
Fred Widling	15	6. 1. 05	Messenger.	1	9. 1. 05	Permit recommended by Asso. Char.	9. 1. 05
Jackson School.							
Louis Anderson	14	9. 23. 04	Work at Minn. Transfer.	1	1. 10. 05	Recommended by Asso. Char. Re-nnewed	9. 1. 05
Marie Erickson	14	9. 19. 04	Department store.	1	1. 10. 05	Recommended by Asso. Char.	9. 1. 05
Robert Gilbertson	14	8th	Dry goods store.	1	9. 1. 05	Recommended by Asso. Char.	9. 1. 05
Alfin Bravald	14	8th	Paper store.	1	9. 1. 05	Recommended by Asso. Char.	9. 1. 05
Florence Johnson	15	5. 13. 05	Department store.	1	9. 1. 05	Recommended by Asso. Char.	9. 1. 05

TABLE I.—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to take up	(*) Reason for Granting Permit	Expiration of Permit	General Remarks	Permit	Received
	Years	Months							on	Date
Jackson—Cont'd.										
Emily Schwend	15	8		9.13.04	Messenger. Messenger.	1	1.12.06	Recommended by Asso. Char.		
Ray Truax	15	7		2.26.06		1	7.22.06	Recommended by Dep Com. of Labor		
Rose Scheid	15	4		11. 3.04		1	1.10.06	Recommended by Asso. Char. Ex- tended		9. 1.06
Rena Hanson	15	4		9.12.04	Department store.	1	6.14.06	Recommended by Asso. Char.		
Julia Nicholson	14	10		11.28.04		1	1.10.06	Recommended by Asso. Char. Ex- tended		9. 1.06
Alfred Peterson	15	11		9.12.04	Furniture factory.	1	9.18.04	Recommended by Asso. Char.		
Mable Ford	14	11		9.13.04		1	12.13.04	Recommended by Asso. Char.		
Louis Mortensen	14	10		9.13.04	Messenger.	1	1.10.06	Recommended by Asso. Char. Ex- tended		9. 1.06
Rose Larson	16			9.—.04	Shoe factory. Office work.	1	9.17.04	Recommended by Asso. Char.		
Anthony Schoch	15			5.22.06		1	9. 1.06	Recommended by Asso. Char.		
Lizzie Sleeper	15	7		9.12.04		1	2.21.06	Recommended by Asso. Char.		
Total number of permits—731.										

- (*) 1. When the labor of the child is necessary for his own or parent's support.
 2. When the parents by reason of poverty are unable to properly clothe the child.
 3. When the child's health prevents his attendance upon school, or when he is being taught at home subject to school examination.
 4. When he has acquired the ordinary branches required by law.

TABLE (C). Showing Child Labor Permits Issued in Duluth During the School Year 1904-1905.

Name of Child	Age when leaving School		Grade (Child last was in)	Date of Employment	Occupation Child was to take up	Reason for Permit (Granting)	Expiration of Permit	General Remarks	Permit		Received to Date
	Years	Months							on Date	Date	
Christian Johnson.....	15	9		9.12.04	In match factory	1 and 2	12.6.04	Expired July 1, '04.			
Francis Haburt.....	14	1	6th	9.12.04	In match factory	1 and 2	7.1.05	Renewal of permit expired July 1, '04.			
Robert Christenson	13	5½	A 5 "	9.12.04	In St. Louis hotel	2	1.1.05	Renewal of permit expired July 1, '04.			
Edward Moe	15	4	7 "	9.12.04	In match factory	2	1.05	Six children in family.	2.3.05	6.1.05	
Martha Wold	14	2	5 "	9.12.04	In match factory	1	1.05	Five children in family.	2.3.05	7.1.05	
Hugh, James Loeyer.....	15	6 "	6 "	9.13.04	In department store	1 and 2	7.1.05	Eight children in family.			
Egnos, Pepluski	15	7½	A 6 "	9.13.04	In match factory	1	1.05	Five children in family.			
Wm. McMahon	14	10½	7½	9.13.04	In department store	1 and 2	7.1.05	Child attended parochial school.			
Rita Cayo.....	15	3	3	9.13.04	In match factory	1 and 2	1.1.05	Renewal of permit expired July 1, '04.			
John Czolgocz	15			9.14.04	In lime kiln	1	7.1.05	Attended parochial school, ten children in family.	4.12.05	7.1.05	
Arthur Sahlin	14	5	A 6 "	9.14.04	In planing mill		1	7.1.05			
Gunder Evenson	14	9	B 6 "	9.14.04	In department store		1	1.1.04			
Angus Gaure	12	1	2 "	9.14.04	In department store	1 and 2	1.1.05	Renewal of permit issued Oct. 25, '03.			
Eliza Ryan	15	11		9.15.04		1	1.1.04				
Peter Allard	14	10		9.15.04	In box factory	1	1.1.05	Father crippled, one other son who is sick.			
Odin Stuberg	14	6		9.15.04	In department store	1	1.1.05	Permit granted on condition that boy does not go to work as messenger or bell boy.	2.3.05	7.1.05	
Sarah Connors	15	9	8 "	9.15.04	In match factory	1 and 2	1.1.05	Father invalid, 7 children in family, renewal of permit expired July 1, '04.			
Emmett Sundquist	15	11½	6 "	9.15.04	Bell boy in hotel	1	10.1.04	Permit granted until Lincoln school opens.			
Axel Grewall	15	2	6 "	9.15.04		2	10.10.04		10.27.04	4.1.05	
Frank Fuardt	14	9		9.15.04	In department store	1	7.1.05	Father dead, seven in family, renewal of permit expired July 1, '04.			
William Campbell	14	5	B 6 "	9.16.04	Messenger boy	1 and 2	1.1.05				
Ray Manke	15	8½	B 4 "	9.19.04	Housework	1 and 2	1.9.05	Eight children in family, mother dead, father sick, brother does the house work.	2.10.05	7.1.05	

TABLE I (c)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to take up	(*) Reason for Granting Permit	Expiration of Permit	General Remarks	Permit		Received to Date
	Years	Months							on	Date	
Laura M. Burt	14	8	7 "	9.19.04	In match factory	1 and 2	7. 1.06	Mother sick	2. 3.06	7. 1.06	
Benny Campbell	15	6	7 "	9.19.04	Housework	1 and 2	1. 1.06	Orphan, supported by brother-in-law			
Hjalmar Johnson	15	4	B 4	9.21.04	In match factory	1 and 2	5.30.06	Renewal of permit expired July 1, '04.			
Lawrence Peffer	15	3½		9.21.04	In dry goods store	2	1. 1.06	Attended parochial school, 5 children in family			
John Dunne	12	..		9.21.04	Office boy	1 and 2	1. 1.06	Attended parochial school, father drunkard			
James Dunne	13	4½		9.21.04	Office boy	1 and 2	1. 1.06	Attended parochial school, father drunkard			
Ernest Brotherton	12	11		9.21.04	In department store	1 and 2	1. 1.06	Mother works in laundry, has to support her mother as well as two children			
Benny Vain	14	10		9.22.04	Messenger boy	1 and 2	7. 1.06	Renewal of permit expired July 1, '04. Boy attends night school of Y. M. C. A.			
Aug. Terring	15	..	4 "	9.23.04	In department store	2	7. 1.06	Three children in family			
Joseph Thennis	15	6	A 3	9.23.04	Messenger boy	1 and 2	1. 1.06	Seven children in family			
Joseph Paquette	11	8	B 6	9.26.04	In department store	1 and 2	1. 1.06	Six children in family			
Victor Smith	13	8	B 6	9.26.04	Messenger boy	1 and 2	1. 1.06	Father dead, renewal of permit expired 7, 1, '04.	2. 9.06	7. 1.06	
David Perry	12	4½	A 6	9.27.04	In saw mill	211.15.04	211.15.04				
Paul Nyman	13	5	A 3	9.30.04		1 and 2	1. 1.06	Father sick, six children in family			
William Siegle	15	7	B 5	10.13.04	Herdling cows	1 and 2	211.15.04	Afterwards working in the woods	12. 1.04	4. 1.06	
Elizabeth England	15	1		9.27.04	In match factory	1 and 2	1. 1.06	Seven children, mother earns living			
Sophie Nelson	14	5		9.27.04		1 and 2	1. 1.06	Twelve in family, parents poor			
Arthur Olson	14	11	B 5	10. 6.04	In box factory	1 and 2	1. 1.06	Five in family, parents poor			
Ella Cole	15	..	B 5	10.14.04	In match factory	1 and 2	1. 1.06	Five children, parents poor	2. 3.06	7. 1.06	
Julia Rozok	13	11		10.10.04	"	1 and 2	12. 1.04	Eight children in family			
Ole Olson	15	11		10.10.04	"	1 and 2	1. 1.06	Father away from home, boy will not go to school			
William Emdad	14	1		11.11.04	"	1 and 2	1. 1.06	Father away from home, boy will not go to school			
Anna Schwartz	15	2	B 8	10. 7.04	In department store	1 and 2	1. 1.06	Boy orphan. Permit recommended by officer of Chr. Charities			
Sam Goldberg	15	6		10.10.04	In overall factory	1 and 2	1. 1.06	Permit recommended by Associated Charities			
Sadie Moe	15	½		10.14.04	Telegraph office	1 and 2	7. 1.06	Permit recommended by Associated Charities			
Carl Ericson	13	5	6 "	10.20.04	In meat market	1 and 2	1. 1.06	Father dead, three children in family			

Hjalmer Rindal	14	8	A 5 "	10.24.04	Moulder's apprentice Dish washer	1 and 2	4. 1.05	Five children in family.....
Anna Parson	13	8	B "	10.28.04	"	1 and 2	4. 1.05	Father dead, brother died one month ago.....
Edwine Olson	13	11	A 5 "	10.31.04	At Commercial Club	1 and 2	1. 1.05	Permit recommended by Associated Charities.....
Willie Kusmerek	15	9	A 7 "	11. 2.04	In bowling alley	1 and 2	3. 1.05	Nine children in family.....
Willie McGilivray	14	3	"	11. 2.04	Messenger boy	1 and 2	4. 1.05	Permit recommended by Associated Charities.....
Oscar Olson	11	..	"	11. 7.04	"	1 and 2	4. 1.05	Father dead, three children in family.....
John A'wapick	14	8	"	11.14.04	In printing shop	1 and 2	4. 1.05	Eight children in family.....
Hattie Gressner	14	3	8 "	11.15.04	"	1 and 2	7. 1.05	Four children in family.....
Rupert Lindan	12	1	"	11.21.04	In department store	2 and 4	1. 1.05	Father dead, 2 children in family.....
Genziano Aulet	15	11	"	11.21.04	In match factory	1 and 2	1. 1.05	Eight children in family.....
Eddie Trambley	15	..	8 "	12.31.04	"	1 and 2	7. 1.05	Eight children in family.....
Oswald Gallagher	14	5	A 4 "	1. 2.05	In wholesaler house	2 and 4	4. 1.05	"
Oscar Swenson	15	2	"	1. 3.05	In cooper shop	1 and 2	7. 1.05	Father dead, 4 children in family.....
Selmer Espiland	14	1	3 "	1. 4.05	In cooper shop	1 and 2	7. 1.05	Eight children in family.....
Mary Levensdusky	14	10	6 "	1. 9.05	In cigar factory	1 and 2	7. 1.05	Seven children in family.....
Lela Loudon	14	..	"	1.10.05	In candy factory	1 and 2	7. 1.05	Permit recommended by Associated Charities.....
Emil Johnson	14	5	A 5 "	1.10.05	"	1 and 2	7. 1.05	Permit recommended by Associated Charities.....
Anna Rice	15	5	"	1.11.05	In match factory	3	7. 1.05	Child has trouble with eyes.....
Yofie Miller	14	7	"	2.14.05	In hat shop	2	7. 1.05	"
Clay Campbell	10	5	4 th	2.13.05	At consignment Co.	1 and 2	3. 1.05	"
John Tarnowsky	15	1	"	2.14.05	Telegraph messenger	1 and 2	7. 1.05	"
Herbert Forrest	14	10	A 6 "	2.15.05	In grocery store	1 and 2	7. 1.05	Mother dead, permit recommended by Associated Charities.....
Ernest Lindgren	14	5	"	4.10.05	Herding cows	1	7. 1.05	Permit approved by principal.....
Chas. Linkem	14	2	A 5 "	3.31.05	Telegraph messenger	1 and 2	7. 1.05	Five children in family.....
George Beck	14	7	A 5 "	4. 5.05	In cooper shop	2 and 4	7. 1.05	Five children in family.....
Gilbert Nelson	13	9	A 6 "	4. 8.05	In printing shop	1 and 2	7. 1.05	Six children in family.....
Jennie Kieselring	15	1	"	4.11.05	In department store	1 and 2	7. 1.05	Mother dead, six children in family.....
David Maher	15	4	A 6 "	4.11.05	"	1 and 2	7. 1.05	Seven children in family, father sick.....
Ernest Duffie	13	8	B 5 "	4.11.05	"	1 and 2	7. 1.05	Four children in family.....
Wm. Leddineham	15	4	B 6 "	4.12.05	"	1 and 2	7. 1.05	Four children in family.....
Hugh McCulloch	14	10	"	4.12.05	In lime kiln	1 and 2	7. 1.05	Five children in family.....
Elizabeth Garvey	14	4	B 7 "	4.13.05	In department store	1 and 2	7. 1.05	Father dead, 8 children in family.....
Chas. Johnson	15	2	B 6 "	4.13.05	At match factory	1 and 2	7. 1.05	Five children in family.....
Marion Mathews	14	..	"	4.14.05	Telegraph messenger	4	7. 1.05	Permit was revoked by order of Mr. Withrow.....
Walter Wickstrom	14	9	6 "	4.17.05	"	2	7. 1.05	Permit recommended by Mr. Withrow.....
Hjalmer Abrahamson	14	5	B 6 "	4.24.05	"	1 and 2	7. 1.05	Parents' mother, mother and four children.....
Erick Baudin	14	2	7 "	4.17.05	In printing office	1 and 2	7. 1.05	Permit recommended by Mr. Withrow.....
Ida Swenson	15	9	6 "	4.18.05	In match factory	1 and 2	7. 9.05	Six children in family.....
Scholastica Somerville	14	9	B 6 "	4.19.05	In department store	1	7. 1.05	Mother has to work.....
Ed. Winters	14	1	B 7 "	4.19.05	"	1	7. 1.05	Mother dead, 4 children in family.....

TABLE I (c)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment	Occupation Child was to take up	Reason for Granting Permit	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Sophie Neilson	14	11	5	4-20-06	In match factory	3 and 4	7. 1.06	Ill health	.....	.....
John Neegodka	15	11	5	4-21-06	Telegraph messenger	1	7. 1.06	Ill health	.....	.....
Mike Jennette	14	5	.....	4-24-06	Peddling fruit	1	7. 1.06	Permit recommended by Mr. Witrow	.....	.....
Maurice Silk	14	5	8	4-24-06	In printing shop	1	7. 1.06	Six children in family	.....	.....
Raymond Rodette	13	5	B 7	4-24-06	Messenger boy	1	7. 1.06	Orphan	.....	.....
Wm. Hughes	14	9	B 7	5. 1.06	.....	1	7. 1.06	Will return to school in Sept.	.....	.....
Victor Jacobson	13	10	A 6	5. 1.06	.....	1	7. 1.06	Eight children in family	.....	.....
Anthony Pavlok	11	4	B 3	4-30-06	Cash boy	1	7. 1.06	Seven children in family	.....	.....
Edward McDonald	14	10	B 7	5. 2.06	At box factory	1	7. 1.06	Help not necessary, but boy does not want to go to school	.....	.....
Sanford McMillan	15	4	A 5	5. 3.06	At grocery store	1	7. 1.06	Three children in family	.....	.....
Chas. McLellan	14	2	A 7	5. 5.06	At match factory	1	7. 1.06	Five children in family	.....	.....
Ed. Danielson	15	6	A 6	5. 12.06	At lime kiln	1	7. 1.06	Eight children in family	.....	.....
Ernest Stahl	15	2	A 5	5. 15.06	At box factory	1	7. 1.06	Five children in family	.....	.....
Emil Strandmark	14	4	A 5	5. 3.06	At shingle mill	1	7. 1.06	Six children in family	.....	.....
Wm. Piering	14	9½	7	5. 8.06	Clothing store	1	7. 1.06	Six children in family	.....	.....
John Steiner	15	6	A 5	5. 9.06	In department store	1	7. 1.06	Four children in family	.....	.....
Carl. Walter Johnson	15	6	A 5	5. 9.06	Litho. and printing shop	1	7. 1.06	Four children in family	.....	.....
Geo. Ettinger	15	7	6	5. 9.06	In cigar factory	1	7. 1.06	Boy will not study	.....	.....
Clarence H. Foss	14	3	A 7	5. 10.06	Light work	3	7. 1.06	Boy has ear troubles and is unde-	.....	.....
Annle Lukaszeosky	14	10½	6	5. 10.06	In match factory	1 and 3	7. 1.06	doctor's care	.....	.....
Josephine Tuck	15	2	5	5. 10.06	At match factory	1	7. 1.06	Six children in family	.....	.....
Frank Johnson	15	5	6	5. 12.06	At box, factory	1	7. 1.06	Seven children in family	.....	.....
Robert Johnson	14	2	A 5	5. 12.06	At box, factory	1	7. 1.06	Ten children in family	.....	.....
Chas. Spennard	15	4	A 5	5. 12.06	At mattress factory	1	7. 1.06	Five children in family	.....	.....
Wm. Scharnhorst	15	2	B 7	5. 12.06	At wholesale drug store	1	7. 1.06	Six children in family	.....	.....
Oscar Larson	14	6	B 6	5. 16.06	At cooper shop	1	7. 1.06	Boy has had typhoid fever.	.....	.....
Nina, Maria Comstock	13	4½	B 5	5. 19.06	At department store	3	7. 1.06	Child has eye trouble, will return to school in fall.	.....	.....
Hilding Lagergren	14	9	A 7	5. 22.06	At printing shop	1	7. 1.06	.....	.....	.....
Sven U. Einlander	13	11	B 5	5. 23.06	At box factory	1	7. 1.06	Five children in family	.....	.....
Gregory Doherty	14	2	A 7	5. 22.06	At match factory	1	7. 1.06	Father dead, large family.	.....	.....
Tyler Knapp	15	3	A 6	5. 15.06	Helping his father	1	7. 1.06	.....	.....	.....
Rose Rusnowsky	14	9	A 6	5. 18.06	At department store	1	7. 1.06	Seven children	.....	.....
Emil Gauvin	15	10	6	5. 18.06	Apprentice in printg. shop	4	7. 18.06	Case investigated by Mr. Witthrow	.....	.....
Mitchell Norski	14	1½	5	1. 11.06	Messenger boy	1 and 2	7. 1.06	Five children in family	.....	.....

Dora Witz	14	8	6 "	1.11.06	In match factory	1 and 2	7.1.06	Seven children in family	3.20.06	7.1.06
Nellie Gothro	14	7	6 "	1.16.06		1 and 2	7.1.06	Seven children, duplicate permit issued		
Tony Lion	13	3	5 "	1.19.06	At shoe factory	1 and 2	4.1.06	Five children in family		
Fanny Berg	14	3	3 "	1.23.06	At cigar factory	1 and 2	7.1.06			
Julie Gunderson	15	6	7 "	1.30.06	In department store	1 and 2	7.1.06	Mother dead		
Sammy Bennett	14	4	7 "	1.30.06	In printing shop	1 and 2	7.1.06	Six children in family	4.10.06	7.1.06
Axel Johnson	14	..	A 6 "	1.31.06	In office	1 and 2	7.1.06	Recommended by Associated Charities		
Maude Johndro	15	3½		2.1.06	In laundry	1 and 2	7.1.06			
Frank Thibideau	15	3		2.3.06	In department store	1 and 2	7.1.06	Renewal of certificate, issued Sept. 9 '04		
Hannah Setterstrom	15	5		2.3.06	In match factory	1 and 2	7.1.06	Renewal of permit issued Sept. 7 '04		
Frank Bruased	15	6½		2.3.06	"	1 and 2	7.1.06	Father dead, renewal of permit, issued Sept. 12 '04		
Chas. Bregar	15	6	B 6 "	2.3.06	"	1 and 2	7.1.06	Father dead, two children in family		
Harold Webster	13	3½	B 6 "	2.3.06	In store	2	7.1.06	Permit recommended by Associated Charities		
Mary Blasch	15	10½		2.3.06	In match factory	1 and 2	7.1.06	Renewal of permit issued Oct. 1 '02		
John, Henry Taliakson	14	11		2.3.06	In planing mill	1 and 2	7.1.06	Renewal of permit issued Feb. 9, '04		
Martin Engberg	15	11	8 "	2.6.06	In box factory	1 and 2	7.1.06			
Stella Norvick	14	10½		2.8.06	In match factory	1 and 2	7.1.06			
Gilbert Peterson	15	9		2.8.06	Office work	1 and 2	7.1.06			
Philip Herion	14	4		2.8.06	Messenger boy	1 and 2	7.1.06			
Joe Kmiecak	13	11	2 "	2.9.06	Helping father	1 and 2	7.1.06	Attended Polish school		
Albert Bolden	15	5½		2.9.06	Messenger boy	1 and 2	7.1.06	Renewal of permit issued April 5, '04		
Huida Linne	14	2	B 7 "	2.16.06	Works at home	1 and 2	7.1.06	Mother sick, six children in family		
Sadie London	15	..		2.18.06	In book bindery	1 and 2	7.1.06	Renewal of permit, expired Jan. 1, '06		
Stanislaus Kocdonowski	15	10½	8 "	2.23.06	"	4	4.3.06	Boy graduated from 8th grade		
Perry Haugen	14	3		2.27.06	In printing shop	1	7.1.06	Renewal of permit expired July 1, '04		
Mathilda Rusch	15	6	A 5 "	2.27.06	Work on poor farm	1 and 2	7.1.06	Nine children in family		
Alma Laurine	15	1½	5 "	3.6.06	At match factory	1 and 2	7.1.06	Thirteen children in family		
Svea Lindburg	15	6		3.11.06		1 and 2	7.1.06	Father dead, three children in family		
Eva Blair	15	5	A 6 "	3.13.06	"	1 and 2	7.1.06	Renewal of permit, issued last year		
Dean Campbell	14	..	7 "	3.13.06	Office work	1 and 2	5.1.06	Renewal of permit, expired March 1, '06		
Sylvester Edwards	15	8	A 7 "	3.14.06	In department store	3	7.1.06	Permit recommended by Associated Charities		
Mary Staxid	14	9	A 5 "	3.16.06	At candy factory	1 and 2	7.1.06	Seven children in family		
Helen Ledy	15	4	8 "	3.20.06	"	1 and 2	7.1.06	Mother dead, graduated from 8th grade		
Lena Polensky	15	2	A 5 "	3.24.06	"	1 and 2	7.1.06	Permit recommended by Associated Charities		

TABLE I (c)—Continued.

Name of Child	Age when Leaving School		Grade last was in	Date of Employment	Occupation Child was to take up	Reason for Permit	Expiration of Permit	General Remarks	Permit on Date	Received to Date
	Years	Months								
Geo Walkawik	14	14	6 "	3.25.05	In department store	1 and 2	7. 1.05	Boy will start to school again in Sept.		
Della Ekholm	15	5	.....	3.27.05	.....	1 and 2	7. 1.05	Permit recommended by Associated Charities		
Grace Linkern	15	4	.....	3.30.05	In candy factory	2	7. 1.05	Five children in family		
Victoria Budinck	14	..	B 7 "	3.31.05	.....	1 and 2	7. 1.05	Father dead, four children in family, permit approved by Associated Charities		
Ed. William Larson	15	..	A 5 "	4.12.05	In department store	1 and 2	7. 1.05	Five children in family, permit approved by Associated Charities		
Philip Laundry	14	10	A 7 "	4.13.05	"	1 and 2	7. 1.05	Four children in family		
Robert Champagne	14	8	B 5 "	4.14.05	"	1 and 2	7. 1.05	Six children in family		
John Wright	14	8	.....	11.23.04	At R. R. depot	1 and 2	6. 1.05	.....	
Andrew Anderson	14	10	A 7 "	3. 6.05	In department store	1 and 2	7. 1.05	Six children in family, father in same		
Jerome St. George	14	9 1/2	.....	3.20.05	Planing mill	1 and 2	7. 1.05	Eighteen children in family, father dead		
Arthur Paquette	14	10	4 "	3.23.05	Bundle boy	1 and 2	7. 1.05	Six children in family, father crippled		
Emma Moe	13	11	.....	3.24.05	Private housework	1 and 2	7. 1.05	Eight children in family, father recently arrested for abuse and non-support		
Chas. Hildebrand	13	9	.....	4.23.05	At match factory	1	7. 1.05	Permit approved by principal		
Florence Safford	15	9	.....	11.23.04	.....	1 and 2	7. 1.05	Seven children in family		
Wm Wakefield	14	2	.....	11.23.04	In department store	2	7. 1.05	Four children in family		
Hattie Seigel	14	10	.....	12. 2.05	"	2	7. 1.05	Eleven children in family		
Edna Safford	14	6	6 "	4.21.05	"	1 and 2	7. 1.05	Five children in family		
Henry Warner	14	8	7 "	3.14.05	"	1 and 2	7. 1.05	Permit approved by Associated Charities		
Eddie Fuller	15	8	.....	12.12.04	In rug factory	1	7. 1.05	Four children in family		
Josephine Favoiak	14	9	8 "	12.12.04	At match factory	1	7. 1.05	Father dead, nine in family		
Sophie Winderly	15	4	H. S.	6.13.05	At home	.....	7. 1.05	Family just come to the city		
Bertina Rellow	11	9	A 3 "	6.13.05	At department store	1	7. 1.05	Child has ill health, will return to school in fall		
Edw. Rasmussen	13	6	B 5 "	5.23.05	"	1	7. 1.05	Six children in family		
Arthur Mancke	15	..	.....	5.24.05	At florist's store	1	7. 1.05	Renewal of permit issued Sept. 10, '04, to 6.10. '05		

Arthur Dubiell	14	A 5 "	5.24.05	Messenger	1 7. 1.05	Father out of work, four children in family.
Albert Carlson	15	A 5 "	5.26.06	At department store	1 7. 1.06	Parents are in old country, boy has to work for a living.
James Currie	14	A 6 "	5.29.05	At box factory	1 7. 1.05	Mother dead, father drinks and does not take care of children.
Alfred Anderson	13	1	6. 1.05	At wholesale house	1 7. 1.05	SIX children in family.
William Tote	14	11	6. 3.06	At department store	1 7. 1.06	Will return to school in fall.
Abe Lats	15	10	6. 9.06	In overall factory	1 7. 1.06	Came from Russia two years ago, never attended school in this country.

(*) 1. When the labor of the child is necessary for his own parent's support.

2. When the parents by reason of poverty are unable to properly clothe the child.

3. When the child's health prevents his attendance upon school or when he is being taught at home subject to school examination.

4. When he has acquired the ordinary branches required by law.

Total number of permits—186.

TABLE I (d).- Showing Child Labor Permits Issued in Country Districts During the School Year 1904-1905.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to Take up	Reason for Granting Permit	Expiration of Permit	General Remarks	Permit		Received
	Years	Months							on Date	Date	
Austin.											
Frank Miller	15			9.13.04	To work in cigar factory.	1	1				
Staples.											
Willie Klos	15	2		5.22.05	No record of employment	1	9. 1.05 9. 7.05				
Stillwater.											
Robert Wright	14			4.25.05	No record of employment.	1	9. 1.05				
Bennie Olson	15	7		4.18.05		1	9. 7.05				
Sandstone.											
Harry Hammerstedt	15	1		9.15.04	No record of employment.	1	112. 1.04	Extended	4. 4.05	10. 1.05	
Chas. Ederling	15			1.23.06	"	1	5. 1.05				
Nels Henriksen	15			10. 1.04	"	1	112.25.04	Extended	3.27.05	10. 1.05	
Peter Vengels	15			11.17.04	"	1	2.17.05				
Cyril McNells	14	5		3.29.05	"	1	1.10. 1.05				
Pipestone.											
Floyd Swan	No record				To work on farm		No rec				
Daniel Lyons	No record				To assist mother		No rec				
Mary Walkup	No record						No rec				
St. Cloud.											
Oliver Dothie	Under 14			No record	No record of employment	1	No rec	Father dead			
Lake City.											
Christian Bremer	14			4.21.05	No record of employment	1	6. 5.05				
Henry C. Bremer	15	10		4.21.05	"	1	6. 5.05				

North St. Paul.					
Geo. Fackler	15		3. 7.05	No record of employment	1
Lena Kuehn	15		2.23.05	" "	1
Ella Klein	15	6	1. 4.05	" "	2 7. 4.05
Grey Standish	15		3. 4.05	" "	1
Wells.					
Willie Swant	15		4.28.05	No record of employment	1 9. 1.05
Libbie Frances	14	1	4.18.05	" "	3 9. 1.05
August Schnoor	15		4.24.05	" "	1 9. 1.05
William Wilson	15		4.24.05	" "	1 9. 1.05
Fairbault.					
John Christianson	15	6	10. 1.04	No record of employment	1 1. 1.05
Wm. D. Reuter	15	7%	1. 3.05	" "	1 5.13.05
Margaret Hanson	15	8	1. 4.05	" "	1 5. 4.05
Margaret Strouske	15		1.27.05	" "	1 6. 5.05
Erna Von Wold	15	9%	H. S.	" "	4 4.11.05
Laura Morton	14	6%	2.13.05	" "	1 6. 5.05
Frank Ziske	14		3. 8.05	" "	1 6. 3.05
Herbert Kallick	15	9	3. 9.05	" "	1 6. 3.05
Vera Fowler	15	1	3.20.05	" "	1 6. 3.05
Victor Demons	14	4	4.15.05	" "	1 9. 4.05
Bertha Sievers	14	9%	4.18.05	" "	1 9. 4.05
Bertina Steffen	14	9%	4.24.05	" "	1 9. 4.05
Frieda Suess	15	5	4.27.05	" "	1 9. 4.05
Geo. Kirkenapp	15		5. 1.05	" "	1 9. 4.05
Elias Lind	14	1	5.12.05	" "	1 9. 2.05
Bessie Brenner.....	14	7%	5.18.05	" "	1 9. 4.05
St. Louis Park.					
One employment permit granted during year. No record.					
White Bear.					
Two oral permits given. No record kept.					
Rochester.					
Frank Weckwerth	15		6 Gr. 4.14.05	Work on farm	1 and 2 9. 1.05
Paul H. K. Radu	15		10.20.04	In cigar factory	1 9. 1.05
Henry Lindberg	15		6 Gr. 4. 6.05	Work in factory	1 and 2 9. 1.05
Willis Tulare	15				1 9. 1.05
Hugo M. Speler	14	9	H. S. 9. 8.04	In cigar factory	1 9. 1.05
Seven children in family, father sick in hospital					

TABLE I (d)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to Take up	(*) Reason for Granting Permit	Expiration of Permit	General Remarks	Permit	Re- ceived
	Years	Months							on Date	to Date
Eveleth.										
Rebeus Johnson	Not given		7 Gr.					No other information. Permit says "Excused while at work."		
John Gaudette	Not given			5.11.05	Work in cigar factory			Has bad eyes. "Excused while at work."		
Oscar Anderson	Not given			3.16.05	Bell boy					
Chas. Smith	15			2. 6. 05	To work in store					
John McMussiel	15				Tally boy at mine			until 16		
Julius Penttelo	15			2. 2. 06				Permit later cancelled. Boy re- turned to school.		
Geo. Williams	15					1		Father dead		
Rose Picplane						1		Father dead		
Lewis Sidar				11.10.04				until 16		
Eda Trigiani				10.27.04				Permit good as long as boy works Permit granted on condition to work. Later cancelled.		
John Manilla	15				Telegraph office			Boy attends night school. Will be 16 on Jan. 1, '06.		
Hanna Freedlund				9.23.04	At home			Mother sick		
Oscar Johnson	14	6		9.20.04	At stripping works			110.20.04		
Red Wing.										
Frank Dalmert	15			10. 1. 04	Work at cigar factory	1 and 2	6. 1. 05	Mother widow. Employment per- mit granted on condition that boy will attend night school.		
James Blair	15			10. 1. 04	At telegraph office	1 and 2	6. 1. 05	Mother widow. Employment per- mit granted on condition that boy will attend night school.		
Anoka.										
Charles Greenfield	14	1		3.29.05	To work in factory	1 and 2	9. 1. 05	Mother a widow		
Alfred Sandstrom	14	11	7 Gr.	4.21.05	To work in factory	1 and 2	9. 1. 05	Re-entered school at expiration of permit		
Pauline Hall	13	2		10.25.04	To work in private family	2	1.10.05			

Richard Moon	14	.....	11.21.04	.....	.....	1 9.1.05	Mother widow. Three smaller chil-	.....
Leo Stahlberg	15	.....	1.14.05	Work in factory	.....	1 9.1.05	dren in family	.....
Joseph Violet	14	1	2.13.05	"	.....	1 9.1.05	.....	.....
George S. Smith	15	9	8 Gr.	To work in shoe factory	.....	1 9.1.05	.....	.....
Hazel Webber	15	9	10.8.04	To work in factory	.....	1 2.11.05	.....	.....
Josephine Bibeau	15	4	9.13.04	To work in shoe factory	.....	1 9.1.05	.....	.....
Little Falls.								
William Steiner	15	6	9.5.04	In printing office	.....	1 6.1.05	.....	.....
Theo. Petterson	14	11	9.2.04	"	.....	1 6.1.05	.....	.....
Two Harbors.								
Fred Beland	15	7	5.17.05	No record of employment	.....	4 9.5.05	.....	.....
Willie Scott	15	.....	5.15.05	"	.....	4 9.5.05	.....	.....
Birger Anderson	14	11	5.3.05	"	.....	4 9.5.05	.....	.....
Roger Hastings	14	10½	5.2.50	"	.....	4 9.5.05	.....	.....
Alden Tippet	14	7½	5.1.05	"	.....	4 9.5.05	.....	.....
Donald Agnew	14	11	5.1.05	"	.....	4 9.5.05	.....	.....
John Houle	14	11	5.1.05	"	.....	4 9.5.05	.....	.....
Allie Jam	14	11	5.1.05	"	.....	4 9.5.05	.....	.....
Aleck Johnson	14	11½	4.23.05	"	.....	1 9.5.05	.....	.....
Mankato.								
Elizabeth Mahowald	14	.....	10.27.04	No record of employment	.....	1 1.05	.....	.....
Elsie Lund	15	4	10.27.04	"	.....	1 1.05	Extended	1.27.05 6.24.05
Rudolph Neumann	14	2	11.1.04	"	.....	1 2.1.05	Extended	1.27.05 9.1.05
Louise Schwabe	14	4	11.7.04	"	.....	9.1.05	.....	.....
Annie Deeth	14	4	11.21.04	"	.....	9.1.05	.....	.....
Bertha Weier	14	8	12.4.04	"	.....	1 9.1.05	.....	.....
Elwin Miller	14	1	1.10.05	Learning trade	.....	9.1.05	.....	.....
Helen Schumann	14	4	1.12.05	"	.....	1 3.12.05	.....	.....
Tillie Huettl	15	10	1.26.05	No record of employment	.....	1 9.1.05	.....	.....
Dora Huettl	14	6	1.26.05	"	.....	1 9.1.05	.....	.....
Christine Anderson	14	5	5 Gr.	"	.....	1 9.1.05	.....	.....
Sarah Hubener	15	2	7 Gr.	"	.....	11.15.05	.....	.....
Frank Bumner	16	1	1.26.05	"	.....	9.1.05	.....	.....
Nicholas Sanger	14	9	1.26.05	"	.....	11.15.05	.....	.....
Tillie Veruth	15	2	1.26.05	"	.....	1 2.6.05	.....	.....
Emma Ahmes	15	11	1.26.05	"	.....	2 25.95	.....	.....
Annie Miller	15	11	1.26.05	"	.....	9.1.05	.....	.....
Bertha Kilinger	14	10	1.26.05	"	.....	9.1.05	Attends business college at night	.....
Oscar Lundberg	14	1	1.26.05	"	.....	9.1.05	Eight children in family	.....
Paul Zobel	14	9	1.26.05	"	.....	1 11.11.05	.....	.....
Annie Frecholtz	15	2	1.26.05	"	.....	8.5.05	.....	.....
Allie Reichel	15	5	1.26.05	"	.....	.....	.....	.....

TABLE I (d)—Continued.

Name of Child	Age when Leaving School		Grade Child was in last	Date of Em- ployment	Occupation Child was to Take up	Reason for Permit	Expiration of Permit	General Remarks	Per- mit	Re- ceived
	Years	Months							Date	Date
Waikato—Cont d.										
Katie Bauer	15	8		1.26.05	"		5.19.05			
Elsie Kronferd	14	2		1.26.05	"		9.1.05			
Glen Shoemaker	15	10		1.26.05	"		3.27.05			
Ed. Fox	15	8		1.26.05	"		6.11.05			
Theodore Heidel	15	6		1.26.05	"		7.15.05			
Herman Kunst	15	6		1.26.05	"		7.20.05			
Mabel Johnson	15	7		1.26.05	"		8.22.05			
Eleanore Vosbeck	15	1	7 Gr.	1.26.05	"		9.1.05			
Hulda Kotz	14	6		1.26.05	"		9.1.05			
Nicholas Juberlen	15	9		1.26.05	"		4.15.05			
John Suess	15	8		1.26.05	"		6.3.05			
Olin Cady	15	9		1.26.05	"		4.10.05			
Alma Klobbman	15	9		1.26.05	"		4.23.05			
John Haunsper	14	2		1.26.05	"		9.1.05			
Matt. Thielen	15	2		1.26.05	"		11.26.05			
Bertha Hartig	14	7		1.26.05	"		9.1.05			
Anna Hurlig	15			1.26.05	"		9.1.05			
Mary Blenapfl	15	2		1.26.05	"		11.13.05			
Rose Weyocker	14	9	5 Gr.	1.27.05	"		9.1.05			
Karl Timmer	15	8		1.27.05	"		5.23.05			
Margaret Huettl	15	8		1.27.05	"		6.4.05			
Alma Bathke	15	7		1.27.05	"		8.24.05			
Lillie Mahowald	14	2		1.27.05	"		9.1.05			
James Guenther	14	1		1.27.05	"		9.1.05			
John A. Weimar	15	6		1.27.05	"		7.15.05			
Henry Degelman	15	6		1.27.05	"		7.17.05			
Tielle Buedscheld	15	3		1.30.05	"		11.9.05			
Anna Johnson	15	10		1.30.05	"		4.4.05			
Ida Faudrey	15	3		2.6.05	"		9.23.05			
Otto Oberlaender	14	9		2.6.05	"		1.9.1.05			
Irwin Thomas	15	10		2.9.05	"		4.3.05			
Fred Rilling	14	7		2.9.05	"		9.1.05	Father sick		
A. V. Runzie	14	9		2.27.05	"		9.1.05			
Annie Juberlen	14	9		3.3.05	"		9.1.05			
Willie Jones	14	5		3.3.05	No record of employment		9.1.05			
Herman Bladenheim	15			3.15.05	"		3.20.05			

151	Charley Beetch	4. 8. 05	1		"	9. 1. 05
141	Harry Anderson	4. 10. 05			"	9. 1. 05
131	Willie Sorel	4. 11. 05	7		"	9. 13. 05
121	Willie Krummel	4. 13. 05	10		"	9. 1. 05
111	Gray C. Crane	4. 13. 05	5		"	9. 1. 05
101	Jacob Ritch	4. 25. 05	14		"	9. 1. 05
91	Amanda Schulty	4. 25. 05	3		"	9. 1. 05
81	Eddie Graf	4. 25. 05	1		"	9. 1. 05
71	Willie Hubner	5. 2. 05	4		"	9. 1. 05
61	Willie Flees	5. 4. 05	4		"	9. 1. 05
51	Tony Schmitt	5. 4. 05			"	9. 1. 05
41	August Wallraf	5. 15. 05			"	9. 1. 05
31	Frank Dietl	5. 23. 05	6		"	9. 1. 05
Winona.						
141	Jennie Kleinsmith	6. 6. 04			In candling and packing eggs	
131	Lizzie Mynczak	10. 8. 04			No record of employment	
121	Rosa Jaszewska	10. 8. 04	2		"	
111	Thos. Rozek	10. 8. 04			"	
101	John Janikowski	10. 8. 04			"	
91	Louis Steyer	10. 8. 04	7		"	
81	Christ Peterson	10. 8. 04			"	
71	Frank Walbroth	10. 8. 04		8 Gr.	"	
61	Arthur Wachs	10. 8. 04	6		"	
51	Florence Stanislawski	10. 13. 04	15		"	
41	Theo. Lipinski	10. 13. 04			"	
31	Walter Wesolowski	10. 14. 04			"	
21	Minnie Royala	10. 20. 04			"	
11	Frank Mikrut	10. 20. 04			"	
10	John Scharmach	3. 5. 04	8		Work in carriage factory	
9	Theresa Lenk	11. 5. 04			No record of employment	
8	Walter Tybosczyk	11. 7. 04	10		"	
7	Carl Dieke	11. 9. 04			"	
6	Carrylane Zaborowski				"	
5	Albert O'Leary	12. 5. 04	3		In copper shop	
4	Teophil Breza	1. 7. 05	1		No record of employment	
3	Emma Roemer	1. 7. 05	6		To learn trade	
2	John Brucksi	1. 9. 05	1		No record of employment	
1	Ernest Bleadow	2. 22. 05			"	
151	Agnes Chaplowski	3. 4. 05	11		"	
141	Carl Wanhoff	3. 7. 05			"	
131	John Kimrowski	4. 10. 05			"	
121	Willie Kautbach	4. 18. 05	1		"	
111	John Stefanski	4. 18. 05			To work in mill	
101	Harry Thoenke	4. 18. 05	6		No record of employment	
91	Alfred Bickles	4. 18. 05			To work in cigar factory	
81	Allie Lilla	4. 18. 05			To work in lumber yard	
71	Frank Janikowski	4. 23. 05	14		To work in saw mill	
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TABLE I (d)—Continued.

Name of Child	Age when Leaving School		Grade Child last was in	Date of Employment Permit	Occupation Child was to Take up	(*) Reason for Granting Permit	Expiration of Permit	General Remarks	Permit	Received
	Years	Months							on Date	to Date
Winona—Cont'd.										
Edward Schrandt	15	7		4.24.06	No record of employment		111. 1.05			
Eddie Taborowski	14	10		4.24.06	"		111. 1.05			
Th. Tanzynowski	14	9		5.26.06	"		111. 1.05			
Willie Parks	14	11		5. 5.06	"		111. 1.05			
Frank Grochowski	14	11		5. 6.06	"		111. 1.05			
Frank Whynchat	14			5. 8.06	No record of employment		11. 1.05			
Steven Janewski				5. 8.06	"		111. 1.05			
George Wrachek					"					

(*) 1. When the labor of the child is necessary for his own or parent's support.

2. When the parents by reason of poverty are unable to properly clothe the child.

3. When the child's health prevents his attendance upon school or when he is being taught at home subject to school examination.

4. When he has acquired the ordinary branches required by law.

TABLE II.—Number of Children Employed in Specified Cities and Towns of the State During the Period from 1899-1904, as Reported by the Factory Inspectors. Also Showing Summary of Child Labor Permits Issued During the School Year 1904-1905.

CITY OR TOWN	Number Employ- ment permits issued during school year	Number of Children Under 16 Years of Age Found Employed and Reported by Factory Inspectors.					
	1905	1904	1903	1902	1901	1900	1899
Entire State	1,725	770	972	1,075	863	780	642
St. Paul	614	247	255	267	218	276	276
Minneapolis	713	192	338	391	304	285	167
Duluth	186	109	110	100	71	70	69
Mankato	71	67	45	58	42	35	33
Winona	41	23	31	22	32	30	33
Faribault	16	7	8	11	7	4	2
Eveleth	13	1	.....	.....	.....	10	1
Anoka	9	1	1	6	3	.....	.....
Two Harbors	9	3	.....	.....	.....	.....	.....
Sandstone	5	6	15	19	8	8	.....
Rochester	5	2	.....	5	5	4	1
Wells	4	3	3	No inspections prior to 1903			
North St. Paul	4	Inspections included in reports of St. Paul					
Pipestone	3	1	.....	2	1	2	.....
Lake City	2	.....	.....	.....	.....	.....	.....
Stillwater	2	13	12	55	9	12	9
White Bear	2	Inspections included in reports of St. Paul					
Red Wing	2	2	7	3	4	.....	2
Little Falls	1	3	.....	3	1	1	4
Austin	1	11	1	2	.....	2	.....
Staples	1	.....	.....	.....	.....	1	.....
St. Cloud	1	5	13	.....	13	1	2
St. Louis Park	1	Inspections inc. in reports of Minneapolis					
Albert Lea	none	1	3	1	.....	6	4
Alexandria .....	.....	5	6	5	.....	.....	1
Albany .....	.....	2	No inspections prior to 1904				
Aitkin .....	.....	1	.....	.....	1	.....	2
Ada .....	.....	3	No inspections prior to 1904				
Adrian .....	.....	.....	.....	.....	2	.....	.....
Barnesville .....	.....	.....	1	.....	.....	1	.....
Belle Plaine .....	.....	.....	2	.....	.....	.....	.....
Benson .....	.....	.....	2	2	.....	.....	.....
Bemidji .....	.....	3	2	.....	.....	1	.....
Blue Earth City .....	.....	1	.....	Not inspected prior to 1893			
Brainerd .....	.....	.....	3	.....	3	1	9
Carlton .....	.....	1	.....	.....	.....	.....	.....
Chaska .....	.....	.....	23	32	77	.....	2
Cloquet .....	.....	13	6	2	2	.....	2
Crookston .....	.....	11	4	11	8	.....	4
Delano .....	.....	.....	.....	2	1	.....	.....
Detroit .....	.....	.....	.....	.....	.....	.....	1
East Grand Forks .....	.....	3	3	.....	.....	.....	.....
Ely .....	.....	1	.....	.....	.....	.....	.....
Cass Lake .....	.....	.....	.....	.....	2	.....	.....
Fairmont .....	.....	.....	5	.....	.....	.....	1
Fergus Falls .....	.....	4	5	.....	2	.....	3
Foley .....	.....	.....	1	.....	8	.....	.....
Fosston .....	.....	1	.....	.....	.....	.....	.....
Frazee .....	.....	.....	2	.....	1	.....	.....
Glencoe .....	.....	.....	.....	5	1	.....	.....
Granite Falls .....	.....	.....	1	.....	.....	.....	.....
Hastings .....	.....	.....	.....	.....	2	1	.....
Hibbing .....	.....	.....	1	.....	.....	.....	.....

CHILD LABOR IN 1905 AND 1906.

From the factory inspection reports it will be seen that in 1905, 1,970 children under 16 years of age were reported as found employed in gainful occupations, either in manufacturing establishments and mechanical trades or in mercantile stores or telegraph, telephone and messenger service offices.

The assistance of the school authorities having been pledged the department to keep child labor within prescribed limits and thereby incidentally helping in the enforcement of the school attendance laws beneficial results soon became apparent.

In order to meet an often made complaint from employers of child labor when found with children in their services without having first procured the employment permit that children and even parents of such children, for the sake of securing work for them, would make false statements as to the age of the child, and that such children had been hired under the firm belief that they were over 16 years of age, the department at the opening of the school session of 1905 and 1906 advised employers of labor in case of any doubt to require of the parents of a child an affidavit as to the age of such child, the affidavit to be made before a notary public. In order to secure uniformity in the affidavits the following form was prepared and adopted.

Affidavit of Parents as to Age of Minor Child.

State of Minnesota, County of—ss.

..... father and mother,
being first duly sworn, depose and say that they are the father and mother,
respectively, of; that said child was born
on the day of, I....., and is now
..... (.....) years of age.

.....
Father.

.....
Mother.

Subscribed and sworn to before me this day of
19.....

.....
Notary Public, County, Minnesota.

This innovation has proved very satisfactory and by some employers has even been extended.

One particular corporation, in the state, when hiring young men under 21 years of age, makes as a condition of the engagement the producing of a parent's sworn affidavit as to age.

The department in one instance was put to the necessity of having the mother of a boy answer to the court on a charge of having made wrong statement as to the age of the boy for the purpose of securing work for him.

During 1905, six cases of violations of the child labor laws were tried in the municipal court in the city of Minneapolis, two in the municipal court of the city of St. Paul and one case in 1906 in the justice of peace court at Sleepy Eye.

Copies of the court proceedings follow:

Case 32517.

State of Minnesota, County of Hennepin—ss.

Before Hon. Edward F. Waite, Judge.

State of Minnesota, against Joseph Hiscock Furniture Factory, defendant.

May 2nd, 1905, L. P. Torgerson files complaint against defendant for violation State Labor Law on May 1st, 1905, warrant issued, returned and filed May 3rd, 1905, at 9 a. m., case called, defendant being in court and in custody is arraigned, pleads not guilty, whereupon case continued to May 4th, 1905, at 9 a. m., and defendant released on his personal recognizance until said time. May 4th, 1905, at 9 a. m., case called, defendant being in custody and in court; whereupon Edwin Olson is shown and testifies in behalf of state; testimony closed, whereupon, defendant adjudged guilty.

Whereupon, It is ordered that defendant pay a fine of twenty dollars and in default thereof be imprisoned in the workhouse of the city of Minneapolis until said fine is paid, not exceeding the term of twenty days.

Defendant pays fine and is released.

P. S. Nelson, Clerk.

J. A. Wirtensohn, Deputy.

Case 33213.

State of Minnesota, County of Hennepin—ss.

Before Hon. Edward F. Waite, Judge.

State of Minnesota, against W. Unsgaard, Department Store, defendant.

September 12th, 1905, L. P. Torgerson files complaint against defendant for violation State Labor Law on September 11th, 1905, warrant issued, returned and filed. September 13th, 1905, at 9 a. m., case called, defendant being in custody and in court, is arraigned and pleads not guilty, whereupon case continued to September 14th, 1905, at 9 a. m., and defendant released on his personal recognizance until said time. September 14th, 1905,

at 9 a. m., case called, defendant being in custody and in court, whereupon complainant and Louis Larson ab. sworn and testifies in behalf of the state and defendant in his own behalf, testimony closed, whereupon the defendant adjudged not guilty, whereupon defendant discharged.

P. S. Nelson, Clerk.

J. A. Wirtensohn, Deputy.

Case 32498.

State of Minnesota, County of Hennepin—ss.

Before Hon. C. L. Smith, Judge.

State of Minnesota, against Frank D. McCarthy Messenger Co., defendant.

April 27th, 1905, Lewis P. Torgerson files complaint against defendant for violation State Labor Law on April 26th, 1905, warrant issued, returned and filed April 28th, 1905, at 9 a. m., case called, defendant being in custody and in court, is arraigned, pleads guilty. Whereupon defendant adjudged guilty. Whereupon it is ordered that defendant pay a fine of twenty dollars and in default thereof be imprisoned in the workhouse of the city of Minneapolis until said fine is paid, not exceeding the term of twenty days.

Defendant pays fine and is released.

P. S. Nelson, Clerk.

J. A. Wirtensohn, Deputy.

Case 33211.

State of Minnesota, County of Hennepin—ss.

Before Hon. Edward F. Waite, Judge.

State of Minnesota, against J. McNarnee Messenger Co., defendant.

September 12th, 1905, L. P. Torgerson files complaint against defendant for violation child labor law, on September 10th, 1905, warrant issued, returned and filed. September 13th, 1905, at 9 a. m., case called, defendant being in custody and in court is arraigned, pleads guilty, whereupon defendant adjudged guilty.

Whereupon, it is ordered that defendant pay a fine of twenty dollars and in default thereof be imprisoned in the workhouse of the city of Minneapolis until said fine is paid, not exceeding the term of twenty days.

P. S. Nelson, Clerk.

J. A. Wirtensohn, Deputy.

Defendant pays fine and is released.

Case 33209.

State of Minnesota, County of Hennepin—ss.

Before Hon. Edward F. Waite, Judge.

State of Minnesota, against P. Horwitz Shoe Store, defendant.

September 12th, 1905, L. P. Torgerson files complaint against defendant for violation child labor law on September 12th, 1905, warrant issued, returned and filed September 13th, 1905, at 9 a. m., case called, defendant being in custody and in court is arraigned and pleads guilty, whereupon defendant adjudged guilty.

Whereupon, It is ordered that defendant pay a fine of twenty-five dollars and in default thereof be imprisoned in the workhouse of the city of Minneapolis until said fine is paid, not exceeding the term of twenty-five days.

P. S. Nelson, Clerk.
J. A. Wirtensohn, Deputy.

Defendant pays fine and is released.

Case 33210.

State of Minnesota, County of Hennepin—ss.

Before Hon. Edward F. Waite, Judge.

State of Minnesota, against Edward Killroy Messenger Co., defendant.

September 12th, 1905, L. P. Torgerson files complaint against defendant for violation child labor law on September 11th, 1905, warrant issued, returned and filed September 13th, 1905, at 9 a. m., case called, defendant being in custody and in court is arraigned, pleads guilty, whereupon defendant adjudged guilty.

Whereupon, It is ordered that defendant pay a fine of twenty-five dollars and in default thereof be imprisoned in the workhouse of the city of Minneapolis until said fine is paid, not exceeding the term of twenty-five days.

Defendant pays fine and is released.

P. S. Nelson, Clerk.
J. A. Wirtensohn, Deputy.

Case No. 8463.

State of Minnesota, County of Ramsey, Municipal Court, city of St. Paul.

State vs. Ilsbein Stahnke. Charge—Violation of Child Labor Law.

John W. Finehout, Judge.

The defendant was arrested by Police Officer Noreen, upon a warrant issued upon complaint of Frank E. Hoffman, charging the defendant with violating the child labor law. May 4, 1905, the defendant was duly arraigned in open court, pleaded not guilty, and case was continued till May 11th, 1905, at 9 a. m., when defendant withdrew plea of not guilty and plea of guilty entered, and case was continued till September 10th, 1905, at 9 a. m., at which time the case was on motion of the county attorney dismissed.

Geo. F. Dix, Clerk.

Case No. 9841.

State of Minnesota, County of Ramsey, Municipal Court, City of St. Paul.

State vs. Wm. Conradi, Sr. Charge—Violation Child Labor Law.

Robt. C. Hine, Judge.

The defendant was arrested by Police Officer Peterson upon a warrant issued upon complaint of Frank E. Hoffman, and charging the defendant with violating the child labor law. October 26, 1905, the defendant was duly arraigned in open court, pleaded not guilty and case was continued to October 30, 1905, at 2 p. m., at which time the case was tried and thereupon dismissed on technical grounds.

Geo. F. Dix, Clerk.

State of Minnesota, County of Brown—ss. Against Charles Gent, Defendant.

In Municipal Court, City of Sleepy Eye.

Before Peter Geschwind, Municipal Judge.

May 25th, 1906, Louis P. Torgerson, Inspector (Labor Inspector) made and subscribed complaint in writing before me upon oath charging Charles Gent with that on the 25th day of May and prior thereto, at Sleepy Eye, Minnesota, then and there employed at his livery stable one Ruben Wenger; that the said Charles Gent had employed the said Ruben Wenger contrary to the Labor Laws, Section 1809, Chapter 23, Revised Laws, State of Minnesota, for the year 1905, that the said Ruben Wenger is under the age of 16 years to-wit, 15 years, and that the said Charles Gent did unlawfully employ the said Ruben Wenger without having first the required certificate from the school superintendent or from any member of the School Board authorized to do so, showing that the said Ruben Wenger has been lawfully excused from attending school at said city of Sleepy Eye. Against the form of the statute in such case made and provided and against the peace and dignity of the State of Minnesota and prayed that the said Charles Gent may be arrested and dealt with according to law.

Charles Gent appeared before me, before the warrant was issued. Complaint read to him, to which he pleaded guilty.

Whereupon I adjudged and determined that the defendant should pay a fine of twenty-five (\$25.00) dollars and the cost of the proceedings taxed at \$2.00, and if the said fine and cost were not paid, to stand committed in the county jail not exceeding 15 days.

Louis P. Torgerson, said inspector, moved to have the fine remitted if the defendant promises not to violate the Child Labor Law for the next six months, which the defendant promised. Fine was remitted and cost paid by the defendant and the defendant discharged.

Given under my hand this 25th day of May, 1906.

Peter Geschwind, Municipal Judge.

State of Minnesota, County of Brown—ss.

I hereby certify that I have compared the foregoing with the original entries in my docket and that the same is a correct transcript therefrom, and of all the proceedings had before me in said cause.

Given under my hand this 27th day of October, 1906.

(Seal.)

Peter Geschwind, Municipal Judge.

The employment permit as will be seen from the form shown below consists of three parts viz. (1) A certificate of the parent or guardian as to age and place of birth of the child. (2) A statement of the superintendent of school, or his representative as to the school attendance of the child during the year preceding the application for an employment permit, and a statement that the child can read and write legible simple sentences in the English language. (3) A certificate over the signature of the superintendent of schools excusing said child from further school attendance for a specified time.

The second part of the certificate requires the oath or affirmation of the parent or guardian as to the correctness of the statement made by them as to the age, and the person granting the permit is authorized by law to administer the oath or demand affirmation.

Employers of children are required at all times to keep on file the certificates of such children as are employed by them and a separate record of all such children in their employ.

For the purpose of control the bureau of labor has prepared and will furnish to employers of children a blank form for the purpose of reporting changes in the children in their employ. A copy of the blank also is shown below :

THIS PERMIT EXPIRES SIX MONTHS FROM DATE.

State of Minnesota.

Employment Certificates and School Excuse for Children Under Sixteen Years of Age.

NOT GOOD IN FACTORIES WHERE DANGEROUS MACHINERY IS USED.

This Certifies That I am the *of* *and that he was born at* *State or*
 (Father, mother or guardian.)
Country of *day of* *18* *and is now* *years and* *months old.*

Signature
Residence *Minn.* *190*

There personally appeared before me the above named *and made oath (or affirmation)*
that the foregoing certificate by *signed is true to the best of* *knowledge and belief. The above named*
 (him or her)
 *attended e* *school for* *weeks in the year preceding the date of the same, beginning* *and*
leaving school ; *and that he can read and write legible simple sentences in the English language.*

Signature
Title

This Certifies That the undersigned is satisfied that the child whose name and age appear above may be legally ex-
cused from school attendance under authority of Law. Said child is therefore excused from school attendance from the
date hereof until *190*

Signature
 (Superintendent of Schools.)
 *Minnesota.*

.....Minn.....190..

Commissioner of Labor, St. Paul, Minn.

The following is a full and complete record of all children under the age of sixteen employed by.....

.....during the period from.....190..

to.....19....

Signature.....

NAME	DATE OF BIRTH			OCCUPATION	DATE OF PERMIT			PERMIT EXPIRES			PERMIT ISSUED BY	REMARKS
	Month	Day	Year		Month	Day	Year	Month	Day	Year		

The two following tables which refer to child labor have been compiled from the factory inspectors reports from 1906 and show its extent in the various sections of the state, as well as in the various trades and occupations.

While 45 cities and towns have been enumerated as having juvenile laborers, yet the bulk of all child labor, as will be seen, is confined to seven cities, and the two principal cities, St. Paul and Minneapolis, make use of 60 per cent of all children enumerated.

TABLE I.—CHILD LABOR IN 1906 CLASSIFIED BY CITIES AND TOWNS.

City or Town	Children Under 16 Years			City or Town	Children Under 16 Years		
	Boys	Girls	Total		Boys	Girls	Total
St. Paul	259	148	407	Alexandria	2	..	2
Minneapolis	133	69	202	New Ulm	2	..	2
Winona	44	18	62	Sleepy Eye	2	..	2
Duluth	43	16	59	Cass Lake	2	..	2
Chaska	49	..	49	Tower	2	..	2
Mankato	28	17	45	Winton	2	..	2
Stillwater	29	1	30	Brainerd	2	..	2
Crookston	13	3	16	Rochester	2	..	2
Princeton	12	..	12	Moorhead	1	..	1
Faribault	7	5	12	Melrose	1	..	1
Little Falls and Pike Creek	12	..	12	Sauk Center	1	..	1
Red Wing	7	2	9	Wadena .....	..	1	1
Anoka	6	..	6	Glenwood	1	..	1
East Grand Forks	6	..	6	Benson	1	..	1
Sandstone	6	..	6	Thief River Falls	1	..	1
Austin	5	..	5	Eveleth	1	..	1
Owatonna	4	1	5	Jackson	1	..	1
St. Cloud	4	..	4	Fairmont	1	..	1
Willmar	3	..	3	Adrian	1	..	1
Breckenridge	3	..	3	Madelia	1	..	1
Foley	3	..	3	Wabasha	1	..	1
Albert Lea	3	..	3				
Shakopee	3	..	3	Total	712	281	993
Coon Creek	2	..	2				

TABLE II.—CHILD LABOR IN 1906 CLASSIFIED BY INDUSTRIES.

Industry	Children Under 16 Years			Industry	Children Under 16 Years		
	Boys	Girls	Total		Boys	Girls	Total
Agricultural machinery and implements	5	..	5	Gas	1	..	1
Bookbinding and blank book making	6	1	7	Gloves and mittens .....	..	2	2
Boots and shoes—factory product	45	19	64	Grain cleaning and storing	1	..	1
Bottling	4	..	4	Hand stamps, seals and stencils	2	..	2
Boxes—cigars	2	1	3	Hosiery and knit goods.....	18	19	37
Boxes—paper	4	4	8	Laundry work.....	4	8	12
Boxes, wood, packing.....	22	..	22	Leather tanning.....	2	..	2
Brass casting and brass finishing	3	..	3	Linseed oil.....	1	..	1
Bread and other bakery products	3	1	4	Lithographing	1	..	1
Brewing	1	..	1	Lumber, planing mill products, including sash door and blinds.....	36	..	36
Brick and tile.....	90	..	90	Lumber and timber products	16	..	16
Brooms	2	4	6	Matches	5	13	18
Brushes	5	..	5	Medicines and drugs.....	2	..	2
Carpets and rugs.....	3	..	3	Millinery	1	7	8
Contracting	3	..	3	Musical instruments.....	1	..	1
Cement stones and cement sidewalks	1	..	1	Plumbing	1	..	1
Cigars	32	5	37	Pottery and stoneware	3	..	3
Clothing, factory product..	3	11	14	Printing and publishing....	75	12	87
Clothing, men's, custom work and repairing.....	6	..	6	Railroad work, shop and roundhouse	1	..	1
Clothing, women's .....	..	5	5	Railroad work, track and switch yards	1	..	1
Coffee roasting and grinding .....	..	1	1	Railroad work, terminal yards	5	..	5
Confectionery	8	21	29	Rattan and willow ware....	1	..	1
Cooperage	11	..	11	Refrigerators	1	..	1
Crackers and cookies.....	3	12	15	Sheet metal work and roofing	1	..	1
Creamery products.....	..	1	1	Slaughtering and packing..	13	..	13
Electroplating	1	..	1	Stone quarry.....	7	..	7
Electrotyping and stereotyping	2	..	2	Tents and awnings.....	1	..	1
Engraving .....	..	2	2	Tinware	8	1	9
Fibre goods.....	1	..	1	Trunks	1	..	1
Flour and grist mill products	2	..	2	Upholstering	1	..	1
Food preparations.....	2	2	4	Wagon and carriages.....	1	..	1
Foundry and machine shop products	6	..	6	Wire and fence work.....	4	..	4
Furs	3	1	4	Woodenware	8	2	10
Fur dressing.....	3	..	3	Wood-turning	1	..	1
Furniture and cabinet making	16	2	18	Woolen goods	4	..	4
				Department stores.....	74	118	192
				Retail mercantile (est)	39	4	43
				Telegraph and telephone....	39	1	40
				Wholesale mercantile (est) ..	27	1	28
				Other occupations.....	6	..	6
				Total.....	712	281	993

The United States Bureau of the Census in its report on manufactures in Minnesota in 1905 shows for the entire state in 34 specified industries 311 children under 16 years of age, as against 862 children reported by the State Bureau of Labor for the identical 34 industries. An inquiry made by the latter as to the cause of difference between the two reports tended to show that while all the tables in the report of the former department convey the idea that they relate to conditions having existed in 1905, the letter of transmittal states that they relate to the year ending Dec. 31, 1904. Further it appears that the statistics compiled by the two departments are not comparable because the number reported to the census is the average number employed during the entire year, while the labor department's reports show the total number actually found employed during the whole or any part of the year. To illustrate this it may be said that if the factory inspectors found 48 children employed in any establishment or industry their report would show that number of children, while the report of the census would show 24 children in case 48 children had been employed but six months during the year.

The two following tables have been prepared for the purpose of comparison, the first table showing the number of children employed in all industries and occupations in the entire state during 1905 while the second table shows the number of children for the specified industries as reported by the bureau of the census and by the bureau of labor. The left hand column in table 2 gives the classification of the industries by the bureau of the census and the right hand column contains the classification by the State Bureau of Labor.

TABLE I.—Children Under 16 Years of Age Found Employed in Specified Industries and Trades in the State During 1905 and Having Legal Employment Permits.

Industry	Total No. of Children	Boys	Girls	Industry	Total No. of Children	Boys	Girls
Agricultural implements and machinery	7	7	..	Jewelry and optical goods...	6	5	1
Automobile and bicycle repairing	2	2	..	Laundry work	36	18	18
Bags	1	..	1	Lithographing	2	2	..
Bookbinding and blank book making	9	7	2	Looking glass and picture frames	1	1	..
Boots and shoes—factory product	83	46	37	Lumber—planing mill products, inc. sash, doors, etc.	99	99	..
Bottling	12	6	6	Lumber and timber products	47	47	..
Boxes—cigars	5	4	1	Matches	50	16	34
Boxes—paper	25	7	18	Mattresses and bedding	4	4	..
Boxes—wooden, packing	51	51	..	Medicines and drugs	3	3	..
Brass casting and brass finishing	5	5	..	Millinery	12	6	6
Bread and other bakery products	14	14	..	Monuments and tombstones	1	1	..
Brewing	4	4	..	Musical instruments	1	1	..
Brick and tile	52	52	..	Paint and varnish	1	1	..
Brooms	1	1	..	Paper	2	2	..
Brushes	2	2	..	Pickling and preserving	6	6	..
Canning	60	31	29	Plumbing and gas and steam fitting	1	1	..
Carpets and rugs	1	1	..	Pottery and stoneware	2	2	..
Cement, lime and plaster	1	1	..	Printing and publishing	116	89	27
Cement stone and cement sidewalk tile	4	4	..	Railroad work—shops and roundhouses	19	19	..
Cigars	48	34	14	Railroad work—terminal yards	13	13	..
Clothing—men's and women's, factory product	33	6	27	Rattan and willow ware	8	2	6
Clothing—men's, custom work and repairing	7	5	2	Refrigerators	1	1	..
Clothing—women's, dress-making	8	..	8	Seed packing	12	3	9
Confectionery	18	10	8	Saddlery and harness	4	4	..
Contracting	2	2	..	Sheet metal working and roofing	4	4	..
Cooperage	25	25	..	Slaughtering and meat packing	33	32	1
Crackers and cookies	16	8	8	Soap	2	..	2
Creamery products	5	5	..	Stone quarry	3	3	..
Dyeing and clothes cleaning	1	..	1	Syrups and jellies	11	8	3
Electrical machinery and construction	2	2	..	Tar paper and tar felt	1	1	..
Electric light, heat and power plants, building	1	1	..	Tinware, factory product	14	11	3
Electric power plant—street car service	8	8	..	Trunks and valises	4	3	1
Electroplating	1	1	..	Upholstering	4	4	..
Electrotyping and stereotyping	1	1	..	Wagons, carriages and sleighs	2	2	..
Engraving	1	1	..	Window shades and shade cloth	1	1	..
Fiber goods	7	..	7	Wire and fence work	4	3	1
Flour and grist mill products	6	6	..	Woodenware	30	27	3
Food preparations	13	12	1	Woolen goods	8	8	..
Foundry and machine shop products	16	16	..	Other inspections	1	1	..
Furs	5	3	2	Total	1,215	889	326
Fur dressing and dyeing	3	3	..	Non-Manufacturing.			
Furniture and cabinet making	22	22	..	Department stores	307	123	184
Gas—illuminating	1	1	..	Retail mercantile establishments	237	171	66
Gloves and mittens	1	..	1	Telegraph, telephone and messenger service	134	131	3
Hand stamps, seals and stencils	1	1	..	Wholesale mercantile establishments	77	76	1
Hats and caps	4	1	3	Total	765	501	264
Hosiery and knit goods	39	14	25	Grand total	1,970	1,390	580
Iron beds and springs	1	1	..				
Iron—structural and ornamental	1	1	..				

TABLE II.—Child Labor in Specified Industries in 1905 as Reported By Bureau of the Census and Number of Children Found Employed By State Bureau of Labor in Same Industries.

INDUSTRIES Classified by Bureau of the Census	Average Number of Children Reported by Bureau of Census.	Number of Children Reported by State Bureau of Labor	INDUSTRIES Classified by State Bureau of Labor
Boots and shoes.....	11	83	Boots and shoes, factory product
Boxes, fancy, paper.....	3	25	Boxes, paper
Boxes, wooden, packing.....	8	51	Boxes, wood, packing
Bread and other bakery products..	8	14	Bread and other bakery products
Brick and tile	16	52	Brick and tile
Brooms and brushes	1	3	Brooms 1, Brushes 2.
Butter	1	5	Creamery products
Canning and preserving, fruits and vegetables	29	71	Canning, corn 60, syrups and jellies 11
Carriages and wagons.....	1	2	Wagons, carriages and sleighs
Cars and general shop construction and repairs by steam railroad companies	3	19	Railroad work—shops and round house
Clothing, men's and women's.....	6	33	Clothing, factory product, in- cludes shirt making
Confectionery	3	18	Confectionery
Cooperage	1	25	Cooperage
Coppersmithing and sheet-iron working	1	4	Tinsmithing and roofing
Electroplating	2	1	Electroplating
Flour and grist mill products	3	6	Flour and grist milling products
Food preparations	2	13	Food preparations
Foundry and machine shop prod- ucts	2	16	Foundry and mach. shop products
Fur goods	2	5	Furs
Furnishing goods, men's	3	..	Not classified
Gloves and mittens, leather.....	1	1	Gloves and mittens
Hosiery and knit goods.....	50	39	Hosiery and knit goods
Lime	1	1	Cement, lime and plaster
Lumber and timber products.....	18	47	Lumber and timber
Lumber, planing mill products, in- cluding sash, doors and blinds....	13	99	Lumber, planing mill products, inc. sash, door and blinds
Marble and stone work.....	2	1	Monuments and tombstones
Mineral and soda waters.....	2	*12	Bottling
Paper goods, not elsewhere spec- ified	1	2	Paper
Photolithographing and photoen- graving	2	3	Engraving 1, Lithographing 2
Pickles, preserves and sauces.....	3	6	Pickles and preserves
Printing and publishing.....	78	116	Printing and publishing
Slaughtering and meat packing, wholesale	8	33	Slaughtering and meat packing, wholesale
Tobacco, cigars and cigarettes.....	24	48	Cigars
Woolen goods	2	8	Woolen goods
Total	311	862	

*Includes bottling of beer

RAILROAD SWITCH YARDS

INSPECTION OF FOOT BLOCKS OF RAILROAD SWITCHES.—1905 AND 1906.

The steel structure found on railroad tracks and known as "a switch" is inserted into the tracks for the purpose of connecting them and allowing trains or cars to be transferred from one track to another.

A switch is composed of a center part, called "frog," the switch points, the switch stand and two guard rails. These parts together form an ordinary switch.

In transferring "switching" trains or cars from one track to another a practice prevails on American railroads which, in the language of railroaders, is called, "Making flying switches," and this in a great measure carries with it danger to the attending switching crew.

In making a flying switch the object is to transfer a car or cars from one track to another in the shortest possible time and with the least number of stops. Therefore this operation is undertaken while the train is in motion.

In making a flying switch the trainman has to step between the cars for the purpose of uncoupling those cars that are to be transferred to the communicating track. While thus running between the moving cars, and his attention is directed to the approaching point where he has to uncouple, he can not watch his feet. In approaching a frog, guard rail or switch point the danger is present that his foot may be caught between the rails where they come together.

Should his foot be caught between the rails and under the ball of the same there will be but little chance for extrication before the wheel of the following car will be upon him.

To a switchman, having his foot so caught while making a flying switch, this invariably means the loss of a leg, or worse even, death under the wheels.

To safeguard against this, switches, frogs and guard rails have to be blocked, and there has been enacted legislation for such safeguarding.

The inspection of foot blocks in railroad switches is in accordance with the provisions of Chapter 16, General Laws of 1887: "Frogs, switches and guard rails on all railroads in Minnesota have to be adjusted, filled, blocked and securely guarded, so as to thoroughly protect and prevent the feet of employes and other persons from being caught therein."

A penalty for failure to comply with the provisions of the act is provided, being a fine of not less than five hundred dollars, nor more than two thousand dollars, in the discretion of the court, for each offence. Aside from this a railroad company operating in this state is held liable for any damage resulting from the failure to comply with the provisions of the law. In railroad yards where there is heavy traffic and much switching to be done, particularly at division points where trains have to be made up, a constant watchfulness on the part of section men is required to keep the foot-blocks of frogs, switches and guard rails in place. The flanges of the wheels of engines and cars, if a little worn, are apt to cut the blocks to pieces and the weight passing over them has a tendency to shake them loose and misplace them.

To make a complete inspection of all switches and foot blocks on railroads in the state would require many times the number of the present staff of the Labor Bureau and the latter has found it necessary to confine such inspections to such places only where other official business calls its employes.

But the department is prepared to say that in its observation the management of railroads are well aware of the necessity of having the foot blocks in frogs, switches and guard rails carefully looked after; this even to such extent that with some companies it has become to be a standing order to roadmasters and section foremen to keep up the foot blocking.

A feature enters into the execution of this work which is well worthy of note.

Railroad companies as a general rule keep the section crew employed all year round and their wages while small are staple and not subject to changes. There is no chance for betterment for the men. But during harvesting and threshing time is offered an opportunity to laboring men to earn materially better wages for at least some weeks or even months and it is claimed by section foremen that a great number of their men take advantage of the situation, and that during such times they are left shorthanded and unable to attend to all of their work in the proper manner. Their

first consideration is for the maintenance of the roadbed and tracks, all other work becomes secondary in importance to them, and so it comes that the blocking at certain times does not receive the attention which it should.

The only remedy it seems would be that railroad companies in fixing wages for section men would take this into consideration and pay such wages that an inducement to earn higher wages during a few weeks of the year would have no attraction for the laborers.

The question of safeguarding by every means the life of trainmen should receive first consideration from those entrusted with the care of switch blocking; aside from this the loss of life on account of defective or missing foot blocks in switches may result in heavy financial losses to a railroad company.

One great difficulty which is met with by the department results from the various methods adopted by railroads in safeguarding switches, frogs and guard rails. Some roads use flat hardwood blocks, others use hardwood angle blocks, solid cast iron blocks are also used, and other roads, out of economy, furnish to their section men softwood flat blocks, the wood very often having served other purposes before.

Realizing the importance of a standard practice for blocking on all railroads the Commissioner of Labor early in the year opened correspondence with the railroad managers of all roads operating lines within the state, inviting them to send representatives to a meeting to be held jointly with members of the Labor Bureau for the purpose of considering and adopting a standard practice upon which they might agree.

This meeting was held at the State Capitol on February 20th, 1906, and the following railroads were represented:

Great Northern Ry., Northern Pacific Ry., Chicago-Great Western Ry., Duluth, Missabe & Northern Ry., Duluth & Iron Range R. R., Chicago, St. Paul, Minneapolis & Omaha Ry., Wisconsin Central Ry., Chicago, Rock Island & Pacific Ry., Minneapolis & St. Louis Ry., St. Paul, Minneapolis & Sault Ste. Marie Ry., Chicago, Milwaukee & St. Paul Ry., Chicago Burlington & Quincy Ry., Chicago & Northwestern Ry.

Not represented were the Minnesota Transfer Ry., Duluth & Northern Wisconsin Ry., and the Duluth, Virginia & Rainy Lake Ry.

The meeting was opened by the Commissioner of Labor, by stating the purpose of the conference. He said that under the provisions of Chapter 16, General Laws of 1887, railroad companies in this state were required to securely block and fill all frogs, switches and guard rails on their road in all yards, divisional and terminal stations, so as to thoroughly protect and prevent the feet of the employes and other persons from being caught therein. The Bureau of Labor by virtue of law was charged to see to it that said provisions were carried out and therefore through its inspectors and deputies had to make inspections of railroad yards and stations. These inspections had shown that on some railroads in the state the switch blocking was very defective, indicating that not sufficient attention was given to this particular law by at least some of the railroad officials in charge of the department of Maintenance of Way; and further, that there was a great variety of blocks used. Almost every railway had a different system of switch blocking and the Commissioner of Labor had called this conference in the hope that the railroad officials might agree to the adoption of a standard block and system of blocking. He requested that a chairman for the meeting be selected, and Mr. Goodell, general superintendent of the Chicago Great Western Ry., was nominated and elected to preside over the meeting; Mr. Julius Moersch, a member of the Bureau of Labor, was selected as secretary of the meeting.

Mr. Murray, factory inspector of the Bureau of Labor, was requested by the chairman to explain to the conference what the inspectors had found with reference to defective blocking. Mr. Murray said:

Some railroads use for blocking, angle or hardwood blocks, others use flat blocks and some have cast iron blocks: With reference to flat blocks, he said it was difficult to keep them in place, that the chances for such blocks to be cut up by the flanges of locomotive wheels were very great and that, generally speaking, section men did not exercise sufficient care in bringing such blocks up under the balls of the rails; that by such practice a far greater danger was created than if there was no block at all.

The question was raised as to what extent frogs, switches and guard rails should be blocked, and a lengthy discussion on the question followed. While some gentlemen gave it as their opinion that the minimum space between the balls of the rails to be guarded should be 3 inches and the maximum width 6 inches, others thought a maximum width of 5 inches should be sufficient.

The chairman ordered a vote to be taken on the question, the result of which it was declared, as the views of the meeting, that for all blocking a minimum width of 3 inches and a maximum width of 5 inches would be considered as effective and secure blocking; that such width should be recommended to railroads by the Bureau of Labor and its officials should consider any blocking from a minimum width of 3 inches to a maximum width of 5 inches as sufficient, but that any railroad desiring to reduce the minimum width and extend the maximum width might do so.

The factory inspectors having voted together with railroad representatives on the motion, the question was raised, if each factory inspector should have a vote on matters presented to the conference.

The Commissioner of Labor stated as his opinion and wish, that the representatives of the Bureau of Labor should not participate in any voting at all, thereupon it was ruled by the Chair that the representatives of the Bureau of Labor in all proceedings before the representatives of the Bureau of Labor but no vote. The former motion therefore was ordered to be reconsidered, railroad representatives only voting this time. The motion was carried as originally that 3 inches should be considered the minimum width between the balls of the rails to be blocked, and 5 inches the maximum width and that any railway may reduce the minimum width and extend the maximum width as it may see fit.

A motion was offered by the representative of the Duluth & Iron Range Ry., that it be the sentiment of the conference that all railway companies not only have the blocking put in place, but also see to it that said blocking be maintained in good order and therefore repeated inspections of all blocking should be made by railway officials.

The motion was not supported.

The next question proposed to the conference for consideration was as to the style of blocks. Since the law which requires the blocking of frogs, switches and guard rails does not prescribe a certain style of blocks, only saying that frogs, switches and guard rails be securely guarded so as to thoroughly protect and prevent the feet of employees and other persons from being caught therein, the conference declined to enter upon any consideration of this question. A resolution was offered, seconded but in voting lost, that it be the sentiment of the conference that either angle or hardwood, cast iron or flat blocks should be recommended for blocking; that such blocking should be securely fastened and that

flat blocking should be so shaped as to fit under the balls of the rails leaving sufficient flange way for wheels to pass over. The Bureau of Labor further stating to the conference that it had been the practice of the inspectors in places where they found defective or missing switch blocking to issue an order to the section foreman; that the department was of the opinion that a section foreman had no authority to carry out any work without the knowledge and consent of his superior, and that since the term of office of the present Commissioner of Labor, this practice has been changed, inasmuch as the orders had been sent to higher railroad officials; but the department was very much in doubt as to the proper person on each railroad, to whom such communications should be addressed.

The Chair ordered a roll call requesting each representative to name the official to whom such orders should go. The following officials were given:

G. N. Ry., F. E. Ward, general manager.
 N. P. Ry., H. J. Horn, general manager.
 C. G. W. Ry., S. C. Stickney, general manager.
 D. M. & N. Ry., W. A. McGonagle, first vice-pres't.
 D. & I. R. Ry., F. E. House, president.
 C. St. P. M. & O. R. R., S. G. Strickland, gen. sup't.
 Wisconsin Central, E. F. Potter, gen. sup't, Milwaukee.
 C. R. I. & P. Ry., gen. sup't, Cedar Rapids.
 M. & St. L. R. R., L. F. Day, vice-pres't. & gen. mgr.
 St. P. M. & S. Ste. M. Ry., J. R. Huntington, gen. sup't.
 C. B. & Q. Ry., H. D. Judson, gen. sup't.
 C. M. & St. P. Ry., E. D. Sewall, asst. gen. supt., Mpls.

Before adjourning—sine die—the Chair, in conformity with a resolution, extended to the Commissioner of Labor the thanks of the railroad officials for having called the conference of which they expected much benefit for their roads.

During the year 1905 the department inspected 9,712 switches with 102,715 foot blocks and in 1906 the number of switches and foot blocks inspected were 10,096 and 103,413 respectively.

Table 1 shows the railroads and stations on which the inspections have been made, as well as the condition of the foot blocks, Table 2 contains a summary review of Table 1, and in Table 3, is shown a percental condition of foot blocks on each railroad for a period of four years from 1903-1906.

FATAL ACCIDENT RESULTING FROM DEFECTIVE BLOCKING.

The Bureau of Labor on March 16-06, received information that A. C. Simpson of Breckenridge, a brakeman in the employ of the Great Northern Ry. Co., on March 15th, had been killed at Benson, Minn., by being run over by a Great Northern train on which he was braking. It appears, the information stated, that his foot got caught in a frog when switching, and he was unable to extricate himself before the train ran over him.

The Commissioner of Labor ordered Mr. Julius Moersch, Factory Inspector of the Department, to at once proceed to Benson and investigate the cause of the accident.

His report follows:

St. Paul, March 19, 1906.

Switch Blocking at Benson.

Mr. W. H. Williams, Commissioner of Labor, St. Paul, Minn.

Dear Sir: In compliance with your instructions of the 16th inst. I went to Benson, Swift county, for the purpose there to examine the blocking of the frog, guard rails and switch points of a certain switch in the yard of the Great Northern Ry., on which according to information a brakeman was killed on the 15th inst. while switching.

The information stated that while switching and moving some cars from the main track to the house track, and while the cars were passing over the frog of the switch, the brakeman who was between the cars and engaged to shut off the air cocks of the air brakes, had his foot caught between the rails at the heel of the frog and being unable to extricate his foot he was run over by the wheels of the car following him.

From the inspection records on file in our office I learned that on Aug. 10, '05, our Assistant Factory Inspector, Mr. Louis Vogler, had made an inspection of the switch yard at Benson. His report showed 15 switches with 30 blocks; 15 frogs with 60 blocks and 30 guard rails with 60 blocks. Of the total number of 150 blocks the report shows that 82 were good, 15 fair, 47 bad and 6 blocks were missing.

Mr. Vogler in writing issued an order to the Section Foreman, Mr. J. D. Korstad, as follows: "Properly block all switches, frogs and guard rails, see that all low blocks are raised to the proper height replace all missing blocks."

The notice of compliance with the above order signed by the section foreman and bearing date of Aug. 18, '05, also is on file in our office.

On Saturday, March 17th inst. I made an examination of the blocking of the switch in the yard at Benson which was pointed out to me as being the one on which the brakeman came to his death. The examination I made in the presence of the Division Roadmaster, Mr. C. Rassmussen, Section Foreman Mr. J. D. Korstad and a number of section men and brakemen.

The switch leads from the main to the house track. The tracks consist of 75-lb. rails and the switch frog is a right hand spring frog.

The flange of a wheel in passing over a spring frog forces the wing rail away from the main rail and after the wheel has passed the wing rail by force of springs snaps back into its former place.

In the heel of the frog I found a foot block, 4 ft. 4 in. long and 2 inches thick. The block reached forward to the point of junction to a distance where the space between the ball of the rails was $2\frac{3}{4}$ inches.

The distance from the inside bottom of the rail to the ball of the rail being $2\frac{3}{4}$ inches, the block being only 2 inches thick and resting at the bottom of the rail there was therefore left a space under the ball of the rail that was not guarded.

I failed in ascertaining from the foreman how long this block had been in place, or whether it had been included in the order of Factory Inspector Vogler. The foreman stated that he thought the block had been in place for quite a long time.

Under the condition as set forth above, any person stepping onto the block while the wing rail opens and springs back, is in great danger of having his foot caught between the rails.

This we demonstrated repeatedly by working the wing by means of steel bars in the same manner as it will move when a wheel is passing through. Myself and other persons present while stepping onto the block and moving the foot forward while the wing rail opened were caught under the ball of the rails and the foot was held in a vice-like grip when the wing rail closed.

I am therefore of the opinion that in blocking the heel of a spring frog and not bringing the block up under the ball of the rails a great danger to any person is created if he attempts to go between moving cars which are passing over a spring frog.

At the meeting of railroad representatives held at your office on Feb. 20, '06, for the purpose of considering a standard practice of blocking frogs, switches and guard rails, the representative of the Great Northern Ry. requested that all communications and orders referring to switch blocking on their system be addressed to the General Manager, Mr. F. E. Ward. I ask respectfully to bring the condition as set forth in this report to his attention with a view of having them relieved without delay.

I further desire to state that a series of experiments has convinced me that a spring frog, even being properly blocked, remains a great danger to brakemen as long as they have to go between cars.

In experiments conducted at a properly guarded spring frog, having a flat block coming up close under the ball of the rails the foot of the person making the experiment was caught between the rails when the wing rail was moved and again released.

The only protection in my opinion against such accidents would be to forbid brakemen to go between moving cars.

Very truly yours,
JULIUS MOERSCH,
Factory Inspector.

TABLE 1.—Great Northern Ry.

STATIONS	1905					1906						
	Number of		Condition of Foot Blocks			Number of		Condition of Foot Blocks				
	Switches	Foot Blocks	Good	Fair	Bad	Missing	Switches	Foot Blocks	Good	Fair	Bad	Missing
Ada	7	70	66	.....	.....	4	7	70	64	5	.....	1
Akley	9	108	108	.....	.....	.....	9	90	50	15	.....	10
Alexandria	14	140	55	27	54	.....	9	92	42	14	.....	4
Anoka	21	194	35	.....	147	.....	.....	204	34	30	125	15
Appleton	4	42	21	6	13	.....	4	40	30	9	.....	.....
Barnesville	71	679	137	95	426	21	71	681	183	93	387	18
Bemidji	18	216	207	.....	.....	9	18	180	100	40	21	19
Benson	15	150	82	15	47	.....	14	140	120	18	2	.....
Breckenridge	44	440	212	65	163	10	45	450	400	20	20	10
Carlton	7	84	84	.....	.....	.....	7	70	50	5	.....	6
Cass Lake	53	636	620	.....	.....	16	53	530	407	70	35	18
Cloquet	12	144	133	11	.....	11	26	260	190	50	10	10
Cokato	4	44	19	11	13	.....	4	40	27	10	3	.....
Coon Creek	6	60	13	.....	.....	.....	7	78	53	5	32	9
Crookston	72	720	514	.....	206	.....	78	784	618	153	3	10
Deer River	6	72	72	.....	.....	.....	6	60	40	7	3	.....
Delano	36	432	385	20	34	.....	36	360	250	50	43	17
Duluth	6	60	60	.....	18	.....	6	60	27	28	2	.....
East Grand Forks	15	180	70	22	87	1	8	104	38	21	45	.....
Elk River	20	160	35	35	75	15	19	149	61	16	60	12
Fergus Falls	6	61	31	3	25	2	6	48	24	.....	.....	.....
Foley	7	84	84	.....	.....	.....	7	70	60	5	3	2
Foston	6	70	25	20	.....	.....	6	40	35	5	.....	.....
Graceville	21	252	242	.....	.....	10	21	210	150	30	20	10
Grand Rapids	4	40	40	4	.....	.....	4	40	40	.....	29	.....
Granite Falls	4	40	40	.....	.....	.....	4	40	40	.....	.....	.....
Hallock	35	420	383	.....	.....	.....	37	370	253	101	10	.....
Hibbing	8	80	50	7	10	13	5	50	15	.....	.....	6
Hinkley	6	60	28	10	15	.....	6	60	29	5	.....	.....
Howard Lake	5	50	5	5	3	.....	5	50	40	5	10	.....
Hutchinson	7	68	22	15	30	2	6	60	22	.....	25	.....
Litchfield	8	80	20	4	40	6	4	40	42	12	4	.....
Long Prairie	4	40	35	5	20	.....	4	40	17	10	11	.....
Maple Plain	9	90	80	.....	.....	.....	9	90	24	5	5	.....
Marshall	64	644	269	28	356	12	64	655	308	128	215	3
Melrose	18	166	75	22	68	1	18	166	136	.....	23	.....

Moorhead	19	168	34	31	87	14	20	181	31	28	118	4
Mora	4	40	8	5	22	5	4	40	25	16	11	4
Morris	21	210	120	26	57	7	18	180	140	218	18	6
Minneapolis	654	6,740	3,074	738	2,589	338	621	6,273	1,538	4,278	4,278	239
Park Rapids	9	108	108	.....	.....	.....	9	90	43	31	10	6
Pipestone	4	40	40	.....	.....	.....	4	40	40	.....	.....	.....
Princeton	14	155	69	22	61	3	13	132	114	.....	18	3
Red Lake Falls	10	100	100	.....	.....	.....	10	100	46	49	2	.....
St. Cloud	89	882	193	65	571	33	94	912	347	212	327	39
St. Hillaire	6	60	60	.....	.....	.....	6	54	31	21	2	.....
St. Paul	318	3,190	2,787	145	74	174	293	3,064	2,664	333	64	23
Sandstone	54	569	166	36	352	15	53	630	172	19	318	21
Sauk Center Falls	15	114	27	23	46	19	17	74	80	13	45	10
Thief River Falls	10	100	100	.....	.....	.....	7	74	148	32	33	.....
Wadena	9	74	11	6	46	12	8	72	23	13	33	3
Warren	6	60	60	.....	.....	.....	7	70	43	27	.....	.....
Waverly	6	60	29	.....	20	10	6	60	50	5	5	.....
Willmar	80	790	410	135	220	25	74	738	588	55	60	85
Virginia .....	.....	.....	.....	.....	.....	.....	31	310	278	6	17	9
Itasca .....	.....	.....	.....	.....	.....	.....	4	40	18	8	14	.....
Brook Park .....	.....	.....	.....	.....	.....	.....	11	110	52	.....	46	10
Oak Park .....	.....	.....	.....	.....	.....	.....	2	20	11	.....	7	2
Foreston .....	.....	.....	.....	.....	.....	.....	2	20	8	.....	10	1
Forney .....	.....	.....	.....	.....	.....	.....	2	20	9	.....	10	2
Ronneby .....	.....	.....	.....	.....	.....	.....	8	64	18	12	28	6
Glydon .....	.....	.....	.....	.....	.....	.....	16	150	63	18	65	4
Evansville .....	.....	.....	.....	.....	.....	.....	6	50	22	8	18	2
Brandon .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	1,988	20,448	11,865	1,652	6,079	85	2,005	20,088	10,559	2,067	6,793	639

Northern Pacific Ry.

Atkin	14	168	168	.....	.....	.....	14	140	90	25	15	10
Anoka	11	138	68	8	61	1	11	138	64	34	39	1
Brainerd	165	1,662	1,567	40	3	22	170	1,806	819	258	701	27
Carlton	70	840	807	.....	14	19	65	660	546	91	33	71
Cloquet	42	504	495	.....	.....	9	55	560	503	15	19	13
Crookston	10	100	100	.....	.....	.....	6	60	60	.....	.....	.....
Detroit	25	254	65	32	135	21	25	240	144	48	42	6
Duluth	438	5,256	5,186	.....	70	.....	588	5,680	4,791	646	129	114
East Grand Forks	32	320	320	.....	.....	.....	32	324	195	128	23	1
Elk River	15	158	79	10	65	4	10	100	56	19	23	2
Fergus Falls	24	248	204	14	20	10	10	191	168	8	6	9
Finlayson	4	40	4	2	33	1	4	40	25	.....	10	5
Frazee	15	150	35	20	78	17	14	140	70	18	39	13
Glenwood	3	45	25	.....	20	.....	4	40	35	1	46	.....
Hinkley	35	350	350	.....	.....	.....	33	330	259	15	1	10
Lake Park	10	100	42	8	45	5	.....	.....	.....	.....	.....	.....
Little Falls	74	756	258	90	379	29	66	662	435	85	125	16

TABLE I (a)—Continued.

STATIONS	1905					1906						
	Number of		Condition of Foot Blocks			Number of		Condition of Foot Blocks				
	Switches	Foot Blocks	Good	Fair	Bad	Missing	Switches	Foot Blocks	Good	Fair	Bad	Missing
Minneapolis	375	3,948	2,554	405	809	190	384	4,164	3,241	10	846	67
Moorhead	23	214	100	28	58	28	29	290	201	25	47	17
Morris	14	140	95	25	18	2	14	140	130	5	3	2
North Branch	15	150	67	20	82	1	15	150	75	30	40	5
Perham	16	152	47	20	71	14	11	110	85	15	8	2
Pine City	15	138	108	...	30	...	17	170	100	20	47	3
Rush City	22	201	113	...	80	...	23	214	132	22	59	1
Rutledge	7	74	13	7	49	3	8	80	70	...	5	5
St. Paul	204	2,085	1,840	123	85	47	244	2,616	2,132	336	114	34
Sauk Center	14	144	25	9	74	34	12	112	44	16	52	...
Sauk Rapids	14	144	25	9	74	34	12	112	44	16	52	...
Staples	26	260	114	15	131	...	...	...	...	...	...	...
Stillwater	98	990	214	81	664	31	137	1,339	590	201	510	38
Wadena	30	318	291	16	4	3	29	318	275	38	2	...
White Bear	24	242	50	28	99	15	24	200	127	26	42	5
Winnipeg Junction	46	464	448	11	...	5	46	464	464	...	...	...
Willow River	43	434	164	55	188	27	38	364	154	78	119	13
Itasca	17	172	35	11	114	12	21	210	100	30	70	10
Gronnegan and Friesland	...	...	...	...	...	...	3	30	15	3	10	2
Breckenridge	...	...	...	...	...	...	13	130	107	...	19	...
Coon Creek	...	...	...	...	...	...	5	50	40	...	...	4
Hawley	...	...	...	...	...	...	5	50	32	3	11	...
Stockwood	...	...	...	...	...	...	6	60	34	6	18	4
Glydon	...	...	...	...	...	...	16	163	104	19	36	4
Bluffton	...	...	...	...	...	...	8	80	29	11	34	6
St. Cloud	...	...	...	...	...	...	14	140	90	20	34	6
Total	1,976	21,175	16,082	1,057	3,479	557	2,251	23,044	16,732	2,355	3,448	509

Chicago, Milwaukee & St. Paul Ry.												
Albert Lea	10	100	80	3	10	7	10	100	88	10	...	2
Appleton	8	80	70	9	4	...	...	...	...	...	6	...
Austin	70	714	65	14	1	...	66	660	634	18	...	3
Breckenridge	8	80	...	...	...	...	...	...	...	...	...	...
Caledonia	3	30	30	...	2	...	3	30	...	10	...	...
Cannon Falls	5	50	48	...	...	...	5	50	37	12	1	...

Cleveland	50	70	60	50	5	2	3	.....	50	1	7	.....
Chaska	7	60	48	6	.....	.....	.....	.....	80	7	.....	.....
Fairmont	24	240	229	5	.....	.....	.....	.....	53	.....	.....	.....
Farmington	18	180	154	9	10	7	.....	.....	270	36	.....	.....
Glencoe	15	150	140	8	.....	.....	.....	.....	155	19	.....	.....
Graceville	7	70	70	2	5	.....	.....	.....	154	8	.....	.....
Granite Falls	38	38	75	2	.....	.....	.....	.....	70	5	.....	.....
Hastings	282	129	20	2	95	38	.....	.....	70	6	.....	.....
Hutchinson	70	60	18	10	.....	.....	.....	.....	252	34	.....	.....
Jackson	240	222	.....	.....	.....	.....	.....	.....	240	4	.....	.....
Kasota	60	60	4	.....	.....	.....	.....	.....	196	.....	.....	.....
Kenyon	16	143	11	5	.....	.....	.....	.....	60	3	.....	.....
Lake City Center	16	160	.....	.....	.....	.....	.....	.....	146	.....	.....	.....
Le Sueur	6	60	.....	.....	.....	.....	.....	.....	50	.....	.....	.....
Mankato	310	230	18	.....	.....	.....	.....	.....	320	26	.....	.....
Minneapolis	487	4,794	12	461	553	.....	.....	.....	4,851	794	.....	.....
Montevideo	42	420	10	4	.....	.....	.....	.....	3,673	5	.....	.....
Montgomery	4	40	.....	.....	.....	.....	.....	.....	384	.....	.....	.....
Norwood	6	60	2	.....	.....	.....	.....	.....	40	.....	.....	.....
Northfield	12	120	3	2	.....	.....	.....	.....	50	.....	.....	.....
Olivia	70	70	10	15	.....	.....	.....	.....	130	7	.....	.....
Ontonville	17	170	4	.....	.....	.....	.....	.....	114	.....	.....	.....
Owatonna	10	116	4	.....	.....	.....	.....	.....	180	3	.....	.....
Pipestone	7	70	.....	.....	.....	.....	.....	.....	170	22	.....	.....
Plato	5	50	6	2	.....	.....	.....	.....	110	9	.....	.....
Preston	6	60	.....	.....	.....	.....	.....	.....	70	.....	.....	.....
Red Wing	47	470	7	2	.....	.....	.....	.....	464	18	.....	.....
Renville	7	70	.....	.....	.....	.....	.....	.....	60	.....	.....	.....
St. Paul	103	973	17	22	18	.....	.....	.....	70	34	.....	.....
Shakopee	5	50	42	8	.....	.....	.....	.....	1,020	14	.....	.....
Sherburn	8	80	.....	.....	.....	.....	.....	.....	88	2	.....	.....
Spring Valley	6	60	5	.....	.....	.....	.....	.....	64	4	.....	.....
Stillwater	14	140	8	2	.....	.....	.....	.....	80	.....	.....	.....
Wabasha	36	364	20	1	.....	.....	.....	.....	71	12	.....	.....
Wells	39	390	18	.....	.....	.....	.....	.....	84	.....	.....	.....
Wheaton	6	60	59	1	.....	.....	.....	.....	414	1	.....	.....
Winona	52	538	11	4	.....	.....	.....	.....	391	8	.....	.....
Winnebago	8	80	8	.....	.....	.....	.....	.....	400	6	.....	.....
Zumbrota	7	109	8	.....	.....	.....	.....	.....	528	8	.....	.....
Cologne	.....	.....	.....	.....	.....	.....	.....	.....	514	.....	.....	.....
Total	1,251	12,566	349	670	672	1,252	12,451	920	10,745	385	401	.....

TABLE I (a)—Continued.—Chicago, St. Paul, Minneapolis & Omaha Ry.

STATIONS	1905					1906						
	Number of		Condition of Foot Blocks			Number of		Condition of Foot Blocks				
	Switches	Foot Blocks	Good	Fair	Bad	Missing	Switches	Foot Blocks	Good	Fair	Bad	Missing
Adrian	12	120	80	8	10	22	12	120	96	24	.....	2
Belle Plais	7	70	60	3	4	3	7	70	48	20	.....	.....
Blue Earth	12	136	102	34	.....	.....	12	120	98	.....	.....	.....
Duluth	69	828	811	.....	17	.....	69	690	620	49	11	10
Fairmont	5	50	46	4	.....	.....	5	50	40	6	.....	4
Henderson	10	100	91	.....	5	.....	7	70	50	.....	.....	.....
Lake Crystal	37	370	370	.....	.....	.....	38	380	372	6	2	.....
Le Sueur	20	200	174	15	10	1	21	194	178	16	.....	.....
Laverne	13	130	112	16	.....	2	13	130	126	4	.....	.....
Madelia	22	220	220	.....	.....	.....	22	220	196	.....	6	.....
Mankato	84	840	784	.....	548	.....	55	550	504	46	.....	.....
Minneapolis	191	2,025	1,388	37	.....	51	197	2,046	1,231	58	746	11
Pipestone	10	100	100	.....	.....	.....	10	100	100	.....	.....	.....
St. James	56	560	498	22	20	2	56	560	502	51	4	3
St. Paul	285	2,850	2,533	88	21	1	304	3,154	2,839	143	79	43
St. Peter	54	540	490	50	.....	.....	53	530	467	53	6	3
Shakopee	12	120	104	14	2	.....	12	120	102	18	.....	.....
Slavton	6	60	56	4	.....	.....	6	60	60	.....	.....	.....
Stillwater	13	132	146	7	5	4	16	178	128	43	2	5
Winom	11	110	110	.....	.....	.....	12	120	112	6	2	.....
Winnebago	9	90	88	2	.....	.....	9	90	90	.....	.....	.....
Worthington	48	480	434	44	.....	2	48	480	456	24	.....	.....
Total	996	9,962	8,796	404	642	121	983	10,032	8,464	573	914	81
Chicago & North Western Ry.												
Chatfield	7	84	76	5	3	.....	7	84	84	.....	.....	.....
Fairmont	5	50	50	.....	.....	.....	5	50	50	.....	.....	.....
Janesville	9	90	90	.....	.....	.....	10	100	94	6	.....	.....
Mankato	46	460	460	.....	.....	.....	50	500	500	.....	.....	.....
Marshall	10	100	90	8	.....	2	11	110	80	7	18	5
New Ulm	32	320	252	36	18	14	25	256	167	61	.....	28
Nicollet	4	40	40	.....	.....	.....	5	50	50	.....	.....	.....
Owatonna	10	108	101	7	.....	.....	14	140	140	.....	.....	.....
Pine Island	2	20	20	.....	2	.....	2	20	20	.....	.....	.....
Redwood Falls	6	60	50	5	2	3	7	70	23	.....	47	.....

Rochester	223	224	231	244	244	244	244	244	244
St. Charles	12	115	12	120	120	120	120	120	120
St. Peter	42	380	40	400	400	400	400	400	400
Sleepy Eye	69	810	55	550	550	550	550	550	550
Tracy	54	503	28	540	540	540	540	540	540
Waseca	38	380	38	380	380	380	380	380	380
Winona	129	1,512	109	1,356	1,356	1,356	1,356	1,356	1,356
Zumbrota	7	70	7	84	84	84	84	84	84
Total	504	5,422	474	5,054	5,054	5,054	5,054	5,054	5,054

Chicago Great Western Ry.

Austin	12	102	17	170	170	170	170	170	170
Cannon Falls	5	35	5	50	50	50	50	50	50
Fairbault	27	240	16	270	270	270	270	270	270
Kenyon	17	96	13	170	170	170	170	170	170
Mankato	25	200	25	250	250	250	250	250	250
Minneapolis	91	947	64	970	970	970	970	970	970
Northfield	7	61	7	78	78	78	78	78	78
Pine Island	2	20	2	20	20	20	20	20	20
Red Wing	34	344	33	362	362	362	362	362	362
Rochester	15	150	17	170	170	170	170	170	170
St. Charles	3	30	3	30	30	30	30	30	30
St. Paul	162	1,620	128	1,804	1,804	1,804	1,804	1,804	1,804
Spring Valley	2	20	2	20	20	20	20	20	20
Waterville	5	50	5	50	50	50	50	50	50
Winona	23	230	23	230	230	230	230	230	230
Zumbrota	4	40	4	40	40	40	40	40	40
Total	435	4,391	401	4,714	4,714	4,714	4,714	4,714	4,714

Chicago, Rock Island & Pacific Ry.

Albert Lea	34	352	20	450	450	450	450	450	450
Fairbault	12	120	8	130	130	130	130	130	130
Luverne	12	120	13	130	130	130	130	130	130
Minneapolis	5	54	5	56	56	56	56	56	56
Owatonna	6	60	6	60	60	60	60	60	60
Pipestone	23	230	23	230	230	230	230	230	230
St. Paul	6	62	6	64	64	64	64	64	64
St. Paul	8	80	8	80	80	80	80	80	80
Worthington	106	1,078	131	1,320	1,320	1,320	1,320	1,320	1,320
Total	106	1,078	131	1,320	1,320	1,320	1,320	1,320	1,320

TABLE I (a)—Continued.—Chicago, Burlington & Quincy Ry.

STATIONS	1905						1906					
	Number of		Condition of Foot Blocks				Number of		Condition of Foot Blocks			
	Switches	Foot Blocks	Good	Fair	Bad	Missing	Switches	Foot Blocks	Good	Fair	Bad	Missing
St. Paul	95	950	940	10			90	908	808	91		9
Winona	16	160	149	11			18	200	189	9		2
Total	111	1,110	1,089	21			108	1,108	997	100		11
Duluth & Iron Range R. R.												
Duluth	32	384	368		16		32	320	270	30	7	13
Ely	115	1,380	1,380				80	800	650	100	30	20
Eveleth	57	684	661		23		75	750	412	218	80	40
Tower	10	120	120				12	120	70	31	17	2
Tower Junction	80	960	941		19		80	800	560	166	55	20
Two Harbors	249	2,988	2,917		71		259	2,590	2,060	500	31	9
Virginia	25	300	300									
Total	568	6,816	6,687		129		538	5,380	4,012	1,044	220	104
Duluth, Missabe & Northern Ry.												
Duluth	51	612	590		22		51	510	400	90	3	17
Eveleth	70	840	840				72	720	320	216	128	56
Hibbing	125	1,500	1,489			11	126	1,260	800	400	40	20
Virginia	48	576	576				11	110	93	5	6	9
Total	294	3,528	3,495		22	11	260	2,600	1,613	711	177	99

Minneapolis St. Paul & Sault Ste. Marie Ry.

Alexandria.....	4	40	40	15	11	5	23	8	13
Buffalo	6	60	30	4	11	4	30	1	4
Detroit	6	60	30	4	25	6	68	25	8
Glenwood	43	430	290	25	15	42	345	50	5
Minneapolis	221	2,364	974	72	1,114	224	1,037	95	174
Paynesville	7	70	30	15	16	8	62	10	5
Thief River Falls.....	6	60	60	.....	.....	.....	.....	3	.....
Warren	4	40	40	.....	.....	4	42	5	1
Total	297	3,124	1,494	120	1,269	293	1,564	180	210

Minneapolis & St. Louis Ry.

Chaska	13	170	170	6	.....	15	91	54	5
Dawson	8	80	73	11	.....	8	80	40	1
Jordan	7	70	57	3	.....	7	63	.....	.....
Madison	8	80	71	5	.....	8	80	14	3
Minneapolis	270	3,062	2,120	93	744	295	2,937	216	53
Montgomery	7	70	42	14	11	14	129	10	1
New Prague	10	100	100	17	.....	10	100	20	8
North Elm	11	110	85	3	.....	14	140	15	5
Norwood	3	30	20	5	.....	6	60	40	.....
St. James	4	40	40	.....	.....	12	120	.....	.....
Waseca	12	120	120	.....	.....	12	120	.....	.....
Waterville	12	120	120	4	.....	12	120	.....	.....
Young America	5	50	40	.....	.....	6	60	15	5
Total	370	4,092	3,068	151	778	401	3,894	24	81

Wisconsin Central Ry.

Minneapolis	52	520	458	28	28	54	374	98	36
St. Paul	10	100	72	.....	2	8	74	3	1
Total	62	620	530	28	30	62	448	101	37

Union Depot Companies.

Albert Lea	33	345	329	18	.....	34	340	.....	.....
Minneapolis	67	750	243	27	45	52	659	371	55
St. Paul	94	1,024	800	49	58	82	655	187	6
Total	194	2,119	1,462	92	503	168	1,207	330	61

TABLE I (a)—Continued.—Other Railroads.

STATIONS	1905						1906					
	Number of		Condition of Foot Blocks				Number of		Condition of Foot Blocks			
	Switches	Foot Blocks	Good	Fair	Bad	Missing	Switches	Foot Blocks	Good	Fair	Bad	Missing
Duluth & North Eastern Ry.	18	216	216	.....	.....	.....	18	180	101	50	7	22
Duluth Virginia & Rainy Lake Ry. (*) ..	37	444	411	.....	.....	33	30	300	170	71	30	29
Kettle River Quarry Co.	24	243	100	14	88	40	22	220	43	.....	142	35
Minnesota & International Ry.	24	238	238	.....	.....	.....	40	412	261	50	88	18
Minnesota & North Wisconsin Ry.	25	300	.....	.....	300	.....	25	250	190	30	30	10
Minnesota Transfer Co.	273	2,738	2,610	56	38	34	345	3,450	2,538	510	71	31
Minneapolis Eastern Ry.	20	210	203	.....	4	3	20	200	192	.....	6	2
Minneapolis Railway Transfer Ry.	93	996	866	19	108	3	88	967	812	3	135	17
Minneapolis, Red Lake & Manitoba Ry.	20	240	223	.....	.....	7	20	200	190	30	3	7
Minneapolis Western Ry.	56	589	238	10	323	16	60	638	177	42	386	24
Minneapolis & Rainy River Ry. ....	.....	.....	.....	.....	.....	.....	16	160	98	40	10	12
Albert Dickinson Grain Co. (Private) ..	.....	.....	.....	.....	.....	.....	25	250	250	.....	.....	.....
Total	590	6,264	5,165	99	862	138	709	7,227	5,292	826	902	207

(*)Duluth, Rainy Lake & Winnipeg Ry.

SUMMARY FROM TABLE I. Showing number of switches and foot-blocks inspected on specified Railroads in Minnesota and condition of foot blocks 1905-6.

RAILROADS	1906					1905						
	Number of		Condition of Foot Block			Number of		Condition of Foot Blocks				
	Switches	Foot Blocks	Good	Fair	Bad	Missing	Switches	Foot Blocks	Good	Fair	Bad	Missing
All railroads in Minnesota.....	9,712	102,715	79,348	4,582	15,311	3,474	10,066	103,413	74,025	9,461	16,922	3,005
Great Northern Ry.....	1,988	20,448	11,855	1,652	6,079	852	2,005	20,088	10,559	2,097	6,793	639
Northern Pacific Ry.....	1,976	21,175	16,082	1,057	3,479	557	2,251	23,044	16,732	2,355	3,448	503
Chicago, Milwaukee & St. Paul Ry.....	1,251	12,566	10,875	349	670	672	1,252	12,451	10,745	385	920	401
Chicago, St. Paul, Minneapolis & Omaha Ry.....	966	9,962	8,795	404	642	121	983	10,032	8,464	573	914	81
Chicago & Northwestern Ry.....	504	5,422	5,136	193	51	42	474	5,064	4,645	128	202	79
Chicago Great Western Ry.....	435	4,391	2,681	338	758	614	461	4,714	2,836	471	960	467
Chicago, Rock Island & Pacific Ry.....	106	1,078	934	78	39	27	131	1,320	1,027	200	74	19
Chicago, Burlington & Quincy Ry.....	111	1,110	1,089	21	.....	.....	108	1,108	1,097	100	.....	11
Duluth & Iron Range R. R.....	568	6,316	6,687	.....	129	.....	538	5,380	4,012	1,044	220	104
Duluth, Missabe & Northern Ry.....	294	3,528	3,495	.....	22	11	280	2,600	1,513	711	177	99
Minneapolis, St. Paul & Sault Ste. Marie Ry.....	297	3,124	1,494	120	1,269	241	293	3,243	1,554	180	1,289	210
Minneapolis & St. Louis Ry.....	370	4,092	3,058	151	778	106	401	4,373	3,894	24	374	81
Wisconsin Central Ry.....	62	30	530	30	30	32	62	614	448	28	101	37
Union Depot Companies.....	194	2,119	1,462	92	503	62	168	2,165	1,207	339	558	61
Other railroads.....	590	6,264	5,165	99	862	138	709	7,227	5,292	826	902	297

TABLE III.—Per cent of good, fair, bad, and missing foot blocks of railroad switches on specified Railroads in Minnesota inspected during 1906, 1905, 1904 and 1903.

RAILROAD	Year	Per cent of Foot Blocks				
		Total	Good	Fair	Bad	Missing
Great Northern Ry.....	1906	100.00	52.6	10.4	33.8	3.2
	1905	100.00	58.0	8.1	29.7	4.2
	1904	100.00	97.5	0.5	0.6	1.4
	1903	100.00	96.1	1.6	1.4	0.9
Northern Pacific Ry.....	1906	100.00	72.6	10.2	15.0	2.2
	1905	100.00	75.9	5.0	16.4	2.7
	1904	100.00	71.5	27.5	0.6	0.4
	1903	100.00	84.7	10.2	2.8	2.3
Chicago, Milwaukee & St. Paul Ry.....	1906	100.00	86.3	3.1	7.4	3.2
	1905	100.00	86.5	2.8	5.3	5.4
	1904	100.00	98.7	0.1	0.2	1.0
	1903	100.00	97.2	1.0	0.9	0.9
Chicago, St. Paul, Minneapolis & Omaha Ry....	1906	100.00	84.4	5.7	9.1	0.8
	1905	100.00	83.3	4.1	6.4	1.2
	1904	100.00	96.7	0.4	0.3	2.6
	1903	100.00	96.0	1.9	1.7	1.4
Chicago & Northwestern Ry.....	1906	100.00	91.9	2.5	4.0	1.6
	1905	100.00	94.7	3.6	0.9	0.8
	1904	100.00	98.6	....	0.5	0.9
	1903	100.00	99.0	....	0.9	0.1
Chicago & Great Western Ry.....	1906	100.00	59.9	10.0	20.2	9.9
	1905	100.00	61.0	7.7	17.3	13.9
	1904	100.00	88.8	....	1.0	10.2
	1903	100.00	56.8	0.5	40.8	1.9
Chicago, Rock Island & Pacific Ry.....	1906	100.00	77.8	15.1	5.6	1.5
	1905	100.00	86.6	7.3	3.6	2.5
	1904	100.00	89.5	....	....	0.5
	1903	100.00	97.3	....	1.2	1.5
Chicago, Burlington & Quincy Ry.....	1906	100.00	90.0	9.0	....	1.0
	1905	100.00	98.1	1.9	....	....
	1904	100.00	84.4	....	....	15.6
	1903	100.00	92.7	....	....	7.4
Duluth & Iron Range R. R.....	1906	100.00	74.6	19.4	4.1	1.9
	1905	100.00	98.1	....	1.9	....
	1904	100.00	100.0	....	....	....
	1903	100.00	97.4	2.3	0.3	....
Duluth, Missabe & Northern Ry.....	1906	100.00	62.0	27.4	6.8	3.8
	1905	100.00	99.1	....	0.6	0.3
	1904	100.00	89.0	11.0	....	....
	1903	100.00	92.0	8.0	....	....
Minneapolis, St. Paul & Sault Ste. Marie Ry.....	1906	100.00	48.3	5.5	39.7	6.5
	1905	100.00	47.8	3.9	40.6	7.7
	1904	100.00	98.5	....	0.8	0.7
	1903	100.00	96.5	2.5	0.7	0.3
Minneapolis & St. Louis Ry.....	1906	100.00	89.0	0.6	8.6	1.8
	1905	100.00	74.7	3.7	19.0	2.6
	1904	100.00	99.5	....	0.4	0.1
	1903	100.00	98.2	0.3	1.2	0.3
Wisconsin Central Ry.....	1906	100.00	73.0	4.6	16.4	6.0
	1905	100.00	98.1	....	1.9	....
	1904	100.00	100.0	....	....	....
	1903	100.00	96.9	....	2.6	0.5
Union Depot Companies	1906	100.00	55.8	15.6	25.8	2.8
	1905	100.00	69.0	4.3	23.7	3.0
	1904	100.00	100.0	....	....	....
	1903	100.00	95.4	1.6	0.2	2.8
All Railroads in Minnesota.....	1906	100.00	71.6	9.1	16.4	2.9
	1905	100.00	77.2	4.5	14.9	3.4
	1904	100.00	91.4	1.4	0.4	6.8
	1903	100.00	92.1	3.6	3.1	1.2

LABOR ORGANIZATION

LABOR ORGANIZATIONS

In presenting the report on organized labor in the state as collected and arranged for the year 1906 it has to be stated that the separate reports have been furnished this department by the secretaries or some other official of the respective organizations. The department having no means by which to verify these reports, but having impressed upon reporting members of the various unions the necessity of correct statements, can not accept responsibility for any errors that may be found in these reports.

For the whole state 339 unions with 27,978* members have made returns. They were distributed as follows:

	Unions with	Members
Minneapolis	86	11,176
St. Paul	82	9,743
Duluth	*48	3,082
Winona	28	824
Brainerd	16	465
St. Cloud	13	427
Mankato	11	276
Two Harbors	6	191
Waseca	5	391
Austin	5	293
Albert Lea	5	64
Stillwater	4	115
Rochester	4	111
Willmar	3	100
Faribault	3	79
Red Wing	3	79
Staples	2	110
Barnesville	3	80
Montevideo	2	58
Sandstone	2	50
Crookston	2	19
St. James	1	74
Proctorknot	1	53
Hastings	1	37
East Grand Forks	1	27
Kasota	1	24
Ortonville	1	20
Tracy	1	10
Total	339	27,978

*Membership of one union not given.

The growth of organized labor in the state since 1858, the year when the first union was organized, is illustrated by the following exhibit which shows the number of unions organized for each of the succeeding years:

	Number of unions organized.		Number of unions organized.
1858.....	1	1891.....	8
1869.....	1	1892.....	15
1870.....	1	1893.....	6
1873.....	5	1894.....	10
1877.....	2	1895.....	15
1878.....	1	1896.....	13
1880.....	7	1897.....	5
1881.....	6	1898.....	17
1882.....	4	1899.....	11
1883.....	4	1900.....	17
1884.....	1	1901.....	24
1885.....	9	1902.....	52
1886.....	9	1903.....	39
1887.....	7	1904.....	11
1888.....	6	1905.....	11
1889.....	9	1906.....	5
1890.....	7		
		Total.....	339

The data received has been arranged in three statistical tables which are self-explanatory. Table I serves as a directory for unions; showing name and number of organization as well as membership at date of making report. Table II contains detailed information as to dues paid by members and financial benefits resulting from such membership. It will be seen that some crafts in a very judicious way manage their financial business and have provided sick, accident and strike benefits; they also assist their members when out of work and aside from providing a death benefit or some sort of life insurance, they also render financial assistance in the event of the death of the wife of one of their members.

Table III furnishes information as to the length of working-time for the day and the week as well as to weekly wages. Changes in wages and in working time since 1904 also are noted.

Many crafts have established apprenticeship systems which are recognized and approved by employers and the following statements have been furnished:

Bakers and Confectioners:

Apprenticeship three years, age 18 years; one apprentice allowed to every three journeymen in each shop.

Barbers:

Apprenticeship three years, one apprentice to each shop.

Bindery Girls:

One girl allowed to every four journeymen, where one girl is employed in a shop but one apprentice is allowed.

Blacksmiths:

Apprenticeship four years. One apprentice to shop and one to every five journeymen.

Boilermakers:

Apprentices not to be under 16 nor over 21 years of age. One apprentice allowed to each five journeymen employed in shop. Apprenticeship four years.

Bookbinders:

Age between 18 and 21 years. Apprenticeship five years; one apprentice to each three journeymen employed in shop.

Boot and Shoe Workers:

Apprenticeship three years at \$8.00 per week for first year, \$10.00 per week second year and \$12.00 per week third year.

Brassworkers:

Apprenticeship three years. One apprentice for every six journeymen employed in shop.

Brewers:

Apprenticeship two years; age between 18 and 21 years.

Bricklayers:

Age to start 17 years; apprenticeship three years. One apprentice allowed to seven journeymen. At Duluth an apprenticeship of four years is required and contractors have to furnish work to apprentice during eight months of the year at the following wages: \$1.00 per day during first year; \$1.50 per day during second year; \$2.00 per day during third year and \$3.00 per day during last year.

Bridge and Structural Iron Workers:

Apprenticeship 18 months at \$2.00 per day during first 12 months and \$3.00 per day during remaining six months.

Broom Makers:

Apprenticeship three years.

Brushmakers:

Apprenticeship four years.

Cabinet Makers:

Apprenticeship three years.

Carpenters and Joiners:

Apprenticeship three years, age not under 21 years.

Cigar Makers:

One apprentice allowed to five journeymen in shop, two apprentices to 10 journeymen, three to 15 journeymen, and not more than five apprentices allowed in any one establishment.

Clerks—Retail:

From St. Paul Union is reported that one year's apprenticeship will secure full membership in union.

Coopers:

Three years' apprenticeship, one apprentice allowed to every ten journeymen employed in shop.

Dressmakers:

Apprentices must be over 16 years of age and are required to serve six months.

Electrical Workers:

Apprentices must serve three years and are required to pass State Examination and Board of Examiners of union.

Engineers—Steam:

Apprentices must not be under 21 years of age, they have to serve three years; two years of apprenticeship are required before becoming eligible to membership in union.

Firemen—Stationary:

Apprenticeship six months.

Furniture Finishers:

Apprenticeship three years. Local union signs agreement with employer.

Horseshoers:

Apprenticeship four years.

Furriers:

Three years' apprenticeship if under 21 years of age, two years if over 21 years.

Iron Moulders:

Apprenticeship four years, one apprentice allowed to every seven journeymen employed in one shop.

Lathers:

Apprenticeship three years, age between 16 and 20 years.

Leather Workers:

Apprenticeship three years. One apprentice to every 10 journeymen employed in one shop, but in no case over five apprentices to one shop.

Machinists:

Apprentices must have a grade school education. Age between 16 and 21 years. Apprenticeship four years. One apprentice allowed to each shop and one to every five journeymen employed in one shop.

Metal Polishers:

One apprentice to every seven journeymen employed in one shop.

Painters, Decorators and Paperhangers:

Three years' apprenticeship. Union signs agreement with employer.

Plasterers:

Apprentices must serve three years, one apprentice to two journeymen.

Plumbers:

At St. Paul one apprentice allowed for each shop. At Minneapolis and Duluth no apprentices allowed at present time.

Photo-Engravers:

Apprenticeship five years. One apprentice allowed to one journeyman, two apprentices to four journeymen and three where seven journeymen are employed in one shop.

Printers:

In book and jobbing shops one apprentice allowed to every five journeymen, apprenticeship four years. In newspaper work one apprentice to every 10 journeymen.

Pressmen:

Apprenticeship four years. One apprentice to every four journeymen employed in one shop.

Steam-Fitters:

Apprenticeship four years. At Minneapolis apprentices or steam-fitters' helpers have to serve five years at \$2.00 wages per day.

Stone Cutters:

Apprenticeship four years, age between 15 and 18 years. One apprentice allowed to every 25 journeymen, 3 apprentices to every 100 journeymen employed by one contractor.

Stone Masons:

Apprenticeship three years, age between 18 and 21 years. One apprentice allowed to each contractor.

Theatrical Stage Employes:

Apprenticeship one year.

Tile and Marble Setters:

Apprenticeship three years.

Tinsmiths:

Age not under 18 years, apprenticeship four years. One apprentice to every three journeymen employed in one shop.

Tailors:

One apprentice allowed to each journeymen employed in shop.

The State of Minnesota has been free from serious labor troubles during the year 1905. With respect to such difficulties the following reports have been made by officials of organized labor:

MINNEAPOLIS.**Cigar Makers:**

One local firm caused reduction in wages five men involved. Men have been replaced by girls.

Coopers:

One firm refusing to sign contract with union. Men called out. Firm employed non-union men and has continued so to do. Strike lost.

Metal Polishers:

One local firm refused to discharge non-union men. Union men therefore called out and have not been reinstated. Other local firm insisted that union men should do some work that came from the firm against which strike was declared. Union men were called out and are still out.

Millwrights:

At a mill out of the city union and non-union men were at work. The union men requested foreman to discharge non-union men; he did so, but took them back again after a few days. The union men thereupon quit the job.

Plumbers:

Went on strike April 1st, 1905, only partially settled at present time. Cause for strike: Would not allow reduction of wages and to take on helpers as proposed by employers. Also wanted only one-half day's work on Saturday, which was not granted.

Printers—Book and Job Work:

Strike and lockout in 23 book and job offices on account of refusal of proprietors to renew contract on eight-hour basis. Lockout in the machine office on account of assistance to the book and job offices. Trouble started Nov. 2d, 1905, and not yet settled.

Tailors:

Two firms locked out union members. One firm refusing to furnish free shop to its employes and the other wanted to run open shop. Both cases still unsettled.

ST. PAUL.**Barbers:**

One shop locked out for keeping open after 7 p. m. Not settled at time of making report.

Pattern Makers:

Two strikes on account of refusal of journeymen to do piece work. Not settled at time of making report.

Printers—Book and Job Work:

Union went on strike Oct. 1st, 1905, at the time of expiration of old agreement. On this day proprietors posted up notice for open shops and nine-hour workday. The union contended for eight hours' workday and the closed shop. Strike still unsettled at time of reporting.

DULUTH.**Leather Workers:**

Strike for eight-hour workday was inaugurated October 5th, 1905, and is strikers going back to work in open shop.

Printers—Book and Job Work:

Strike for eight hour workday was inaugurated October 5th, 1905, and is still unsettled at time of making report. A number of local firms have acceded to the demands of the union.

Sheet Metal Workers:

Strike for increase in wages was inaugurated May, 1905. Strike lasted three weeks and was won by union.

TABLE I—Labor Organizations, City of Minneapolis, 1906.

Industry or Trade	Name of Organization	When Organ- ized	Mem- bership 1906
Bakers and confectioners.....	Bakery and Confectionery Workers Union No. 222.	1893	90
Barbers	Barbers Union No. 61.	1895	100
Bar-tenders	Bar-tenders Union No. 152.	1895	350
Beer bottlers	Beer Bottlers Union No. 26.	1902	100
Beer wagon drivers	Beer Drivers Union No. 289.	1901	100
Billposters	Billposters and Billers Union No. 10.	1902	104
Bindery girls	Bindery Girls Union No. 32.	1902	46
Blacksmiths	Blacksmiths—Four City Union No. 73.	1894	125
Boltermakers	Boltermakers Union No. 11.	1900	60
Boltermakers helpers	Boltermakers Helpers Union No. 53.	1900	90
Bookbinders	Bookbinders Union No. 81.	1892	76
Boot and shoe workers.....	Boot and Shoe Workers Union No. 204.	1892	18
Brewers and maltsters.....	Brewers and Maltsters Union No. 103.	1896	64
Bricklayers	Bricklayers Union No. 2.	1893	300
Bridge and structural iron workers.....	Bridge and Structural Iron Workers Union No. 19.	1893	25
Broommakers	Broommakers Union No. 33.	1899	80
Cabinet makers	Carpenters and Joiners Union No. 1568.	1902	150
Carpenters and joiners.....	Carpenters and Joiners Union No. 7.	1896	1,400
Clearmakers	Clearmakers Union No. 17.	1899	213
Clerks, retail	Retail Clerks Union No. 550.	1899	165
Coopers	Coopers Machine Operators Union No. 75.	1899	36
Electricians	Electrical Workers Union No. 232.	1899	54
Electricians	Electrical Workers Union No. 24.	1899	381
Engineers, hoisting	Engineers Union No. 28.	1901	23
Engineers, steam	Steam Engineers Union No. 34.	1900	125
Firemen	Stationary Firemen's Union No. 29.	1889	25
Flour mill employes.....	Flour and Cereal Mill Employes Union No. 2.	1894	145
Flour mill packers and nailers.....	Packers and Nailers Union No. 1.	1896	120
Furniture finishers	Furniture Finishers Union No. 93.	1903	27
Furriers	Furriers Union No. 5.	25	25
Garment workers	Garment Workers Union No. 27.	1899	55
Glass workers	Glass Workers Union No. 8.	1901	46
Hack drivers	Hack Drivers Union No. 27.	1901	17
Horseshoers	Horseshoers Union No. 27.	1899	36
Ice wagon drivers and helpers.....	Ice Wagon Drivers and Helpers Union No. 221.	1901	180
Leathers	Leathers Union No. 189.	1889	60
Leather workers	Leather Workers Union No. 18.	1899	62
Machinists, contract	Contract Machinists Union No. 91.	1900	135
Machinists, locomotive	Locomotive Machinists—Hennepin Lodge No. 477.	1900	190
Mason tenders	Mason Tenders Union No. 111.	1896	95
Meat cutters	Meat Cutters Union No. 83.	1900	60

Metal polishers	1898	26
Millwrights	1899	150
Mineral and soda water bottlers	1901	15
Molders, iron	1890	275
Musicians	1891	330
Painters, decorators and paperhangers	1897	728
Paperhangers	1890	42
Photo engravers	1901	46
Plasterers	1895	95
Plumbers, gas and steam fitters	1898	157
Plumbers laborers	1899	30
Pressfeeders	1892	116
Pressmen	1892	122
Printers	1893	100
Printers, carmen	1897	20
Railway, carmen	1871	412
Railway, conductors	1903	126
Railway, locomotive engineers	1902	135
Railway, locomotive engineers	1891	192
Railway, locomotive firemen	1891	63
Railway, locomotive firemen	1892	90
Railway, locomotive firemen	1891	92
Railway, locomotive firemen	1891	140
Railway, locomotive firemen	1891	112
Railway, switchmen	1891	75
Railway, track workers	1901	135
Railway, trainmen	1871	253
Railway, trainmen	1902	40
Railway, trainmen	1898	58
Railway, water supplymen	1890	116
Sheet metal workers	1901	85
Steam fitters	1902	200
Steam fitters' helpers	1891	157
Stereotypers	1891	48
Stone cutters	1891	85
Suspenders workers	1891	250
Tailors	1902	22
Team drivers	1873	245
Theatrical stage employees	1900	90
Tile and marble setters	1891	60
Woodworkers	1891	54
Machinists, specialists	1891	75
	1903	50
Total membership reported, 11,176.		11,176

TABLE I.—Labor Organizations, City of St. Paul, 1906.

Industry or Trade	Name of Organization	When Organ- ized	Mem- bership 1906
Bakers	Bakers and Confectionery Workers Union No. 21	1885	120
Barbers	Journeyman Barbers Union No. 31	1889	115
Bartenders	Bartenders Union No. 287	1906	77
Beer bottlers	Beer Bottlers Union No. 343	1902	60
Beer wagon drivers	Beer Wagon Drivers Union No. 765	1903	82
Blacksmiths	Blacksmiths Union No. 43	1902	75
Blacksmiths' helpers	Blacksmith Helpers Union No. 300	1902	80
Bollermakers	Bollermakers Union—Capitol City Lodge No. 3	1881	115
Bollermakers' helpers	Bollermakers' Helpers Union No. 7	1902	89
Bookbinders	Bookbinders Union No. 37	1883	68
Boot and shoe workers—bottomers	Boot and Shoe Workers—Bottomers Union No. 288	1902	140
Boot and shoe workers—cutters	Boot and Shoe Workers—Cutters Union No. 291	1902	75
Boot and shoe workers—fitters and stitchers	Boot and Shoe Workers—Fitters and Stitchers Union No. 319	1902	125
Boot and shoe workers—lasters	Boot and Shoe Workers—Lasters Union No. 419	1906	50
Brassworkers	Brassworkers Union No. 273	1903	28
Brewers	Brewers Union No. 97	1882	80
Bricklayers	Bricklayers Benevolent Union No. 1	1882	170
Brushmakers	Brushmakers Union No. 14	1906	13
Cabinetmakers	Cabinetmakers Union No. 80	1889	88
Carpenters	Carpenters Union No. 87	1881	1,050
Cigar makers	Cigar makers Protective Union No. 98	1880	213
Clocks, retail	Retail Clerks Union No. 2	1885	167
Cooks	Cooks Union No. 271	1906	21
Coopers	Coopers Union No. 61	1890	32
Dressmakers	Dressmakers Union No. 2	1901	75
Electrical workers	Electrical Workers Union No. 2	1892	13
Electrotypers	Electrotypers St. Paul & Minneapolis Union No. 45	1902	23
Engineers, hoisting	Hoisting Engineers Union No. 84	1891	13
Engineers, steam	Steam Engineers Union No. 36	1901	150
Engineers, stationary	Expressmen Union No. 64	1904	30
Expressmen	Stationary Firemen Union No. 48	1903	60
Firemen	Garment Workers Union No. 171	1901	25
Garment workers	Hack and Cab Drivers Local Union	1885	30
Hack drivers	Hack and Cab Drivers Local Union	1885	30
Horseshoers	Horseshoers Union No. 28	1886	35
Ice wagon drivers	Ice Wagon Drivers and Helpers Union No. 756	1891	100
Leathers	Leathers Union No. 194	1898	48
Leather workers	Leather Workers Horse Goods Union No. 19	1898	115
Letter carriers	Letter Carriers Branch No. 28	1891	130
Machinists	Machinists Union—Capitol City Lodge No. 459	1892	125
Machinists, locomotive	Machinists Union No. 112	1890	304

Machinists, specialists	1903
Meat cutters	1901
Molders, iron	1902
Musicians	1906
Painters	1906
Pattern makers	1908
Plasterers	1908
Plumbers	1908
Postoffice clerks	1908
Press, assistants	1902
Pressmen	1904
Pressreaders, juniors	1904
Printers	1908
Railroad, carmen	1901
Railroad, conductors	1901
Railroad, locomotive engineers	1901
Railroad, locomotive engineers	1901
Railroad, locomotive engineers	1901
Railroad, locomotive engineers	1901
Railroad, locomotive firemen	1901
Railroad, locomotive firemen	1901
Railroad, switchmen	1901
Railroad, trainmen	1901
Sheet metal workers	1901
Sign writers	1901
Steam fitters	1901
Steam and hot water fitters	1901
Stone cutters	1901
Structural iron workers	1901
Suspender makers	1901
Tailors	1901
Tailors	1901
Team drivers	1901
Team owners	1901
Theatrical stage employees	1901
Waiters	1901
Writers	1901
Railroad, locomotive firemen	1901
Railroad, locomotive engineers	1901
Total number of organizations reported, 82.	
Total membership reported, 9,743.	
Machinists Specialists—Twin City Union No. 718.	1903
Meat Cutters and Butchers Workmen Union.	1901
Iron Moulders Union No. 232.	1902
Musicians Protective Union No. 30.	1906
Painters Union No. 61.	1906
Pattern Makers Twin City Union No. —	1908
Operative Plasterers Association No. 20.	1908
Plumbers Union No. 34.	1908
Postoffice Clerks Branch No. 23.	1902
Press Assistants Union No. 56.	1904
Pressmen's Union No. 25.	1904
Junior Pressfeeders Union No. 55.	1904
Typographical Union No. 30.	1901
Railway Carmen—Capitol City Lodge No. 118.	1901
Order of Railway Conductors—Division No. 40.	1901
Brotherhood of Locomotive Engineers—Division No. 150.	1901
Brotherhood of Locomotive Engineers—Division No. 349.	1901
Brotherhood of Locomotive Engineers—Division No. 516.	1901
Brotherhood of Locomotive Engineers—Division No. 309.	1901
Brotherhood of Locomotive Firemen—Cook Lodge No. 38.	1901
Brotherhood of Locomotive Firemen—Marguerite Lodge No. 450.	1901
Brotherhood of Locomotive Firemen—Arbitration Lodge No. 330.	1901
Railway Switchmen's Lodge No. 31.	1901
Brotherhood of Railway Trainmen—St. Paul Lodge No. 122.	1901
Sheet Metal Workers Union No. 42.	1901
Twin City Sign Writers Union No. 830.	1901
Steam Fitters Union No. 9.	1901
Steam and Hot Water Fitters Union No. 455.	1901
Stone Cutters Union.	1901
Inside Structural Iron Workers Union No. 94.	1901
Federal Laid Union No. 10288.	1901
Tailors Union No. 88.	1901
Tourismen Tailors Self Protective Association.	1901
Team Drivers Union No. 245.	1901
Team Owners Union No. 130.	1901
Theatrical Stage Employees Union No. 20.	1901
Waiters and Waitresses Alliance No. 43.	1901
Furriers Union No.	1901
Brotherhood of Locomotive Firemen—Minnehaha Lodge No. 61.	1901
Brotherhood of Locomotive Engineers—Twin City Division No. 474.	1901
Total number of organizations reported, 82.	
Total membership reported, 9,743.	

9,743

TABLE I—Labor Organizations, City of Duluth, 1906.

Industry or Trade	Name of Organization	When Organ- ized	Mem- bership 1906
Bakers and confectioners.....	Bakers and Confectioners Local Union No. 109.....	1891	21
Barbers.....	Journeyman Barbers Union No. 67.....	1895	50
Boilermakers.....	Brotherhood of Boiler Makers and Ship Builders Union No. 165.....	1896	60
Bookbinders.....	Bookbinders Union No. 81.....	1898	9
Brewers.....	Brewery Workers Union No. 133.....	1898	18
Bricklayers.....	Bricklayers Union No. 3.....	1896	65
Builders' laborers.....	Builders Laborers Union No. 173.....	1891	140
Carpenters.....	Carpenters and Joiners Union No. 361.....	1897	470
Cigar makers.....	Cigar Makers Union No. 234.....	1896	125
Clerks, retail.....	Retail Clerks Union.....	1894	158
Cooks, harbor.....	Harbor Cooks Union.....	1895	16
Cooks and waiters.....	Cooks and Waiters Union No. 53.....	1892	60
Engel and ship carpenters.....	Cook and Ship Carpenters Union No. 1461.....	1896	110
Electricians.....	Steam Engineers Union No. 15.....	1898	68
Electricians, stationary.....	Electrical Workers Union No. 31.....	1892	65
Firemen, stationary.....	Stationary Firemen's Union No. 137.....	1892	22
Freight handlers.....	Freight Handlers Local Union No. 64.....	1896	54
Grain trimmers.....	Grain Trimmers Union No. 218.....	1899	15
Horse shoers.....	Horse Shoers Union No. 69.....	1895	9
Leathers.....	Wood, Wire and Metal Lathers Union No. 12.....	1895	21
Leather workers.....	Leather Workers Union—Zenith No. 63.....	1900	84
Lumber graders and tiers.....	Longshoremen, Marine and Transport Workers Association No. 12.....	1892	185

Machinists	1902	40
Meat cutters	1897	60
Molders	1885	40
Musicians	1895	105
Painters, decorators and paperhangers	1894	142
Plasterers	1894	18
Pattern makers	1902	4
Plumbers	1885	46
Printers	1885	82
Pressmen	1891	27
Railway—carmen	1900	60
Railway—conductors	1895	45
Railway—firemen, locomotive	1901	70
Railway—engineers, locomotive	1898	not given
Railway—switchmen	1894	42
Railway—trainmen	1897	135
Steam fitters	1891	20
Stone cutters	1891	7
Stone masons	1886	72
Tailors	1889	86
Team drivers	1902	23
Theatrical stage employees	1895	35
Tile layers and helpers	1905	15
Tinners	1890	31
Tugmen	1900	106
Tug firemen and linemen	1901	60
Total number of organizations, 48.		3,082
Membership reported, 3,082.		
Memberships for one union not given.		

TABLE I—Labor Organizations, 1906.

Industry or Trade	Name of Organization	When Organized	Membership
Brainerd.			
Barbers	Barbers Union of America, Local No. 472	1902	9
Blacksmiths	Blacksmiths Union—Sons of Vulcan No. 57	1902	35
Boilermakers	Boilermakers and Iron Ship Builders Union—Pine City Lodge No. 116	1902	35
Boilermakers' helpers	Boilermakers' Helpers Union—Mississippi Lodge No. 89	1903	23
Butchers	Amalgamated Meat Cutters and Butchers Workmen	1904	9
Carpenters	Carpenters and Joiners Union No. 561	1902	30
Clerks, retail	Retail Clerks Protective Association No. 205	1887	49
Accountants	Machinist Union—North Star Lodge No. 197	1891	113
Molders	Iron Molders Union No. 225	1886	6
Letter carriers	Letter Carriers Branch No. 864	1902	6
Printers	Typographical Union No. 593	1903	7
Railway, carmen	Railway Carmen's Union—Pine Tree Lodge No. 133	1901	30
Railway, locomotive firemen	Railway Firemen's Union—Pine Tree Lodge No. 636	1901	28
Railway, trainmen	Brewery Workers Union No. 338	1903	28
Sheet metal workers	Sheet Metal Workers and Tinsmiths Union No. 241	1902	17
Tailors	Journeyman Tailors Union No. 171	1902	9
	Number of organizations, 16	1903	5
St. Cloud.			
Barbers	Barbers Union No. 549	1903	455
Brewery workers	Brewery Workers Union No. 338	1903	13
Bricklayers and stone masons	Bricklayers and Stonemasons Union No. 15	1904	20
Carpenters	Carpenters Union No. 930	1903	15
Cigarmakers	Cigar Makers Union No. 315	1901	44
Electricians	Electricians Union No. 398	1890	55
Engineers	Steam Engineers Union No. 293	1903	30
Granite cutters and polishers	Granite Cutters, Polishers and Tool Sharpeners Union No. 92	1877	12
Painters, decorators and paperhangers	Painters, Decorators and Paperhangers Union No. 568	1901	92
Printers	Typographical Union No. 630	1903	14
Team drivers	Team Drivers Union	1902	12
Quarrymen	Quarrymen's Union	1902	20
General laborers	Federal Labor Union, No. 11426	1903	60
	Number of organizations, 13	1903	40
Mankato.			
Barbers	Barbers Union No. 498	1903	427
Carpenters	Carpenters Union No. 992	1902	18
Laborers	Laborers Protective Union No. 10215	1902	25
Stone cutters	Journeyman Stone Cutters Association	1902	50
Engineers	Steam Engineers Union	1902	22

Brewery workers	1905	30
Bricklayers	1903	25
Clearmakers	1902	26
Sheet metal workers	1903	27
Railway, carmen	1903	14
Railway, maintenance of way	1904	19
Number of organizations, 11.		276
Stillwater.		
Bricklayers, masons and plasterers	1902	30
Carpenters and joiners	1902	63
Printers	1901	10
Painters and paperhangers	1902	12
Number of organizations, 4.		115
Two Harbors.		
Boilermakers and iron ship builders	1905	14
Clerks, retail	1903	23
Machinists	1903	17
Railway, carmen	1903	57
Railway, trainmen	1883	50
Railway, conductors	1889	191
Number of organizations, 6.		
Red Wing.		
Carpenters	1905	35
Millsters	1904	10
Potters	1886	34
Number of organizations, 3.		79
Waseca.		
Railway, conductors	1883	49
Railway, trainmen	1878	89
Railway, locomotive firemen	1880	82
Railway, locomotive engineers	1889	85
Railway, trainmen	1880	86
Number of organizations, 5.		391
Hastings.		
Flour mill workers	1903	37
Barnesville.		
Machinists	1902	45
Railway, firemen	1883	35
Number of organizations, 2.		80
Tracy.		
Railway, carmen	1904	10

TABLE I.—Continued.

Industry or Trade	Name of Organization	When Organ- ized	Members 1906
Austin			
Railway, locomotive engineers.....	Brotherhood of Locomotive Engineers, Division No. 102.....	1870	76
Railway, locomotive firemen.....	Brotherhood of Locomotive Firemen—Comet Lodge No. 126.....	1892	70
Railway, conductors.....	Order of Railway Conductors, Division No. 215.....	1887	45
Railway, trainmen.....	Brotherhood of Railway Trainmen, Lodge No. 283.....	1887	94
Bricklayers, stonemasons and plasterers.....	Bricklayers and Stonemasons Union No. 12.....	1886	18
	Number of organizations, 5.		293
Staples.			
Railway, carmen.....	Railway Carmen Union—Crow Wing River Lodge No. 134.....	1901	27
Locomotive firemen.....	Railway Locomotive Firemen—Resurrection Lodge No. 443.....	1896	83
	Number of organizations, 2.		110
Willmar.			
Railway, trainmen.....	Railway Trainmen Union—Mendota Lodge No. 640.....	1903	46
Railway, locomotive engineers.....	Brotherhood of Locomotive Engineers—Green Lake Division No. 549.....	1902	24
Railway, locomotive firemen.....	Brotherhood of Locomotive Firemen—Willmar Lodge No. 56.....	1896	30
	Number of organizations, 3.		100
Winona.			
Printers.....	Typographical Union No. 246.....	1897	80
Barbers.....	Barbers Union No. 38.....	1895	23
Bartenders.....	Bartenders Union No. 481.....	1903	31
Blacksmiths.....	Blacksmiths Union No. 108.....	1899	46
Boilermakers.....	Boilermakers Union—Gate City Lodge No. 201.....	1898	25
Brewers and maltsters.....	Brewers and Maltsters Union No. 331.....	1902	38
Bricklayers.....	Bricklayers Union No. 7.....	1886	24
Carpenters and joiners.....	Carpenters and Joiners Union No. 307.....	1900	73
Cigarmakers.....	Cigarmakers Union No. 70.....	1892	26
Clerks.....	Retail Clerks Union No. 52.....	1892	32
Coopers.....	Coopers Union No. 199.....	1903	13
Electrical workers.....	Electrical Workers Union No. 74.....	1898	13
Engineers, steam.....	Stationary Engineers Union No. 4.....	1892	26
Federal laborers.....	Federal Union No. 11044.....	1902	30
Iron moulders.....	Iron Moulders Union No. 264.....	1894	18
Machinists.....	Machinists Union No. 133.....	1890	92
Plumbers.....	Plumbers Union No. 6.....	1892	10
Painters and paperhangers.....	Painters Union No. 540.....	1891	13
Sheet metal workers.....	Sheet Metal Workers Union No. 232.....	1901	4
Shoe repairers.....	Shoe Repairers Union No. 410.....	1903	14
Stone cutters.....	Stone Cutters Union.....	1906	15
Stone masons.....	Stone Masons Union No. 6.....	1903	16
Team drivers and helpers.....	Team Drivers and Helpers Union No. 187.....	1902	27
Team drivers.....	Team Owners Union No. 132.....	1903	16
Woodworkers.....	Woodworkers Union No. 42.....	1902	14
Railway carmen.....	Railway Carmen Union No. 180.....	1902	38
Railway bridge builders.....	Railway Maintenance of Way Union No. 33.....	1904	78
Railway trainmen.....	Railway Brotherhood of Railway Trainmen, Lodge No. 510.....	1893	824
	Number of organizations, 28.		

Proctor-knott.	1901	53
Railway conductors		
Crookston.		
Cigar makers	1888	13
Printers	1900	6
East Grand Forks.		
Railway, locomotive firemen	1885	24
Montevideo.		
Railway, conductors	1883	35
Railway, locomotive firemen	1901	23
		58
Albert Lea.		
Barbers	1904	9
Bricklayers and masons	1903	10
Carpenters	1903	24
Railway switchmen	1902	14
Railway carmen	1902	7
		64
Sandstone.		
Paving stone cutters	1902	30
Stone cutters	1888	20
		50
St. James.		
Railway trainmen	1889	74
Ortonville.		
Granite cutters	1877	20
Kasota.		
Stone cutters	1898	27
Rochester.		
Bricklayers, masons and plasterers	1902	27
Carpenters	1902	30
Cigar makers	1893	28
Miscellaneous	1902	26
		111
Faribault.		
Carpenters	1905	42
Cigar makers	1903	19
Steam engineers	1903	18
		79

TABLE II.—Showing Dues Paid and Benefits to

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per Week	How Many Weeks	Amount per Week	How Many Weeks
Bakery and Confectionery Workers Union No. 222	\$.60	\$5.00	26	None	
Barbers Union No. 61	.60	5.00	16	5.00	16
Bartenders Union No. 152	.60	5.00	10	5.00	10
Beer Bottlers Union No. 206	.50	None		None	
Beer Drivers Union No. 269	.50	None		None	
Billposters and Billers Union No. 10	.50	None		None	
Bindery Girls Union No. 52	.25	2.00	6	None	
Blacksmiths Union No. 73	.50	None		None	
Boiler Makers Union No. 11	.50	None		None	
Boiler Makers Helpers Union No. 53	.50	None		None	
Bookbinders Union No. 51	.75	3.00	8	None	
Boot and Shoe Workers Union No. 204	1.00	5.00	13	5.00	
Brewers and Malsters Union No. 103	.50	None		None	
Bricklayers Union No. 2	.35	5.00	13	5.00	13
Bridge and Structural Iron Workers Union No. 19	.80	5.00	6	5.00	6
Broom Makers Union No. 33	.75	None		None	
Carpenters and Joiners Union No. 1568	.60	5.00	13	None	
Carpenters and Joiners Union No. 7	.60	5.00	13	5.00	13
Cigar Makers Union No. 77	1.30	5.00	13	None	
Retail Clerks Union No. 550	.50	5.00	8	None	
Coopers Machine Operators Union No. 75	.50	None		None	
Electrical Workers Union No. 292	.75	5.00	10	5.00	10
Electrical Workers Union No. 24	.75	7.00	10	7.00	10
Engineers Union No. 26	.75	None		None	
Engineers Steam Union No. 34	.50	5.00	6	None	
Firemen, Stationary Union No. 29	.50	None		None	
Flour and Cereal Mill Employees Union No. 2	.50	None		None	
Flour Mill Packers & Nailers Union No. 1	.50	None		None	
Furniture Finishers Union No. 966	.35	None		None	
Furriers Union No. 5	.50	3.00	11	None	
Garment Workers Union No. 27	.75	3.00	6	3.00	6
Glass Workers Union No. 8	.50	None		None	
Hack Drivers Union	.50	5.00	8	None	
Horseshoers Union No. 27	.50	5.00	6	None	
Ice Wagon Drivers and Helpers Union No. 221	.75	5.00	13	5.00	
Lathers Union No. 189	.50	None		None	
Leather Workers Union No. 18	1.08 1/4	5.00	13	None	
Machinists—Contract Union No. 91	1.00	3.00	13	None	
Machinists—Locomotive Lodge No. 477	1.00	None		None	
Machinists—Specialists Union No. 718	1.00	None		None	
Mason Tenders Union No. 111	.40	4.00	10	4.00	10
Meat Cutters Union No. 83	.50	5.00	13	5.00	13
Metal Polishers Union No. 116	.80	None		None	
Millwrights Union No. 548	.50 .75	None		None	
Mineral and Soda Water Bottlers Union	.50	None		None	
Iron Molders Union No. 176	1.08 1/4	5.25	13	None	
Musicians Association	.25	None		None	
Painters, Decorators and Paperhangers Union No. 186	.50	5.00	26	5.00	26
Paperhangers Union No. 586	.50	None		None	
Photo Engravers Union No. 6	1.00	None		None	
Plasterers Union No. 65	.50	4.00	13	4.00	13
Plumbers, Gas and Steam Fitters and Steam Fitters Helpers Union	1.90	5.00	13	5.00	
Plumbers Laborers Union No. 4	.15	None		None	
Press Assistants Union No. 6	.50	4.00	12	4.00	12
Press Assistants Union	.50	4.00	12	None	
Pressmens Union No. 20	1.00	9.00		None	
Printers—German-American Typographia No. 13	2.16 1/2	5.00	50	None	
Printers—Typographical Union No. 42	.40	10.00	26	None	
Railway—Carmen Lodge No. 240	1.00	None		4.00	12
Railway—Carmen Lodge No. 112	1.00	None		None	
Railway—Conductors Division No. 117	\$1-\$3	None		None	
Railway—Locomotive Engineers Division No. 180	.46	None		15.00	2
Railway—Locomotive Engineers Division No. 494	.50	None		15.00	2

Members of the Various Organizations in Minneapolis, 1906.

Strike Benefit		Out of Work Benefit		Funeral and Death Benefit	Other Benefits.
Amount per Week	How Many Weeks	Amount per Week	How Many Weeks		
\$7 & \$5	Indefinite	\$4.00		\$150	
None		None		100	
None		None		local 50	\$50 international death benefit.
None		None		None	
6.00	Indefinite	None		None	
None		None		None	
None		None		25	
None		None		None	
7.00	Indefinite	None		None	
7.00	Indefinite	None		None	
5 & 7	Indefinite	None		50	
6.00	Indefinite	None		100	
5.00	Indefinite	None		50	
6.00	Indefinite	None		100	
None		None		100	
5.00	Indefinite	3.00		None	
5.00	Indefinite	None		200	\$50 at death of wife of member.
6.00	Indefinite	None		200	\$50 at death of wife. Disability claim \$400.
5.00	Indefinite	3.00	24	50-500	At wife's death \$40. Traveling benefit \$20.
None	Indefinite	None		100	
5.00	Indefinite	None		None	
7.00	Indefinite	None		100	and all expenses.
7.00	Indefinite	None		100	and all expenses.
None		None		50	\$25 at death of wife of member.
10.00	Indefinite	None		None	
None		None		None	
None		None		50	
None		None		50	
None		None		150	\$50 at death of wife of member.
None		None		50	
None		None		None	
5.00	Indefinite	None		75	Permanent disability \$100.
None		None		50	
None		None		50	
6.00	Indefinite	None		None	
None		None		100	
5.00	Indefinite	no dues		40 to 100	
5 & 7	Indefinite	no dues		50	Life insurance \$50 to \$1,000.
5 & 7	Indefinite	no dues		50 to 200	Life insurance \$500 to \$1,000.
5 & 7	Indefinite	no dues		50 to 200	
None		None		100	
None		None		100	
5.00	Indefinite	None		100	
None		None		200	
None		None		None	
7.00	Indefinite	None		100 to 400	
None		None		100	
6.00		None		150	Total disability \$150. Wife's death \$50.
None		None		150	At wife's death \$50.
7.00	Indefinite	None		75	
None		None		150	
5.00	14	None		100	After 14 weeks \$3 weekly strike benefit.
None		None		None	
None		None		75	
5 & 7	8	None		75	
None		None		100	
10.00	Indefinite	5.00	16	200	
7 & 10	Indefinite	None		470	Members pay 1% of earning additional.
None		None		None	
None		None		None	
50.00 per month		None		None	Life and Disability Insurance.
None		None		None	Life and Disability Insurance.
None		None		None	Life and Disability Insurance.

TABLE II.—

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per Week	How Many Weeks	Amount per Week	How Many Weeks
Railway—Locomotive Engineers Division No. 357 .....	.33½	None		None	
Railway—Locomotive Fir'm's Lodge No. 82	\$2-\$3	6.00	12	6.00	12
Railway—Locomotive Firemen No. 270....	.50	None		None	
Railway—Loco. Firemens Lodge No. 520..	62½-2.25	None		None	
Railway—Switchmens Union No. 7.....	1.75-2.75	None		4.00	10
Railway—Switchmens Union No. 30.....	1.75-2.50	None		3.00	10
Railway—Track Workers Lodge No. 269...	.34½	None		None	
Railway—Trainmens Lodge No. 525.....	1.75-2.75	None		5.00	10
Railway—Trainmens Lodge No. 102.....	1.75-2.75	None		5.00	12
Railway—Trainmens Lodge No. 625.....	1.75-2.75	None		4.00	12
Railway—Water Supply Association.....	16½	None		None	
Sheet Metal Workers Union No. 40.....	1.00	5.00	15	5.00	
Steam and Hot Water Fitters Union No. 19	1.00	3.00	8	3.00	8
Steam Fitters Helpers Union No. 3.....	.50	None		None	
Stereotypers Union No. 16.....	.50	None		None	
Stone Cutters Association.....	.50	None		None	
Stone Masons Union No. 6.....	.40	None		5.00	8
Suspender Workers Union No. 9480.....	.10	None		None	
Tailors—Custom, Benevolent Union No. 89	.65	4.00	8	4.00	8
Team Drivers Union No. 206.....	.50	5.00	13	5.00	13
Theatrical Stage Employees Union No. 13	.50	None		None	
Tile and Marble Setters Union No. 19.....	.50	None		None	
Woodworkers Union No. 14.....	.50	None		None	

Continued.

Strike Benefit		Out of Work Benefit		Funeral and Death Benefit	Other Benefits
Amount per Week	How Many Weeks	Amount per Week	How Many Weeks		
None	None	.....	None	Life and Disability Insurance.
None	None	.....	None	Life and Disability Insurance.
25.00 per month	None	.....	None	Life and Disability Insurance.
25.00 per month	None	.....	100	Accident Insurance \$10 to \$15 per week.
None	None	.....	None	
None	None	.....	None	
None	None	.....	None	
None	None	.....	None	
None	None	.....	None	
None	None	.....	None	
None	None	.....	None	
7.00 indefinite	None	.....	150	
None	None	.....	100	
None	None	.....	None	
None	None	.....	60	
7.50 indefinite	None	.....	100	
6.00 indefinite	None	.....	100	
None	None	.....	None	
12.00 indefinite	None	.....	100	
6.00 indefinite	None	.....	None	
None	None	.....	None	
None	None	.....	None	
None	None	.....	None	

TABLE II.—Showing Dues Paid and

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per Week	How Many Weeks	Amount per Week	How Many Weeks
Bakers and Confectionery Workers Union No. 2	\$.75	None		None	
Barbers Union No. 31	.60	\$5.00	20	None	
Bartenders Union No. 287	.60	5.00	10	None	
Beer Bottlers Union No. 343	.50	None		None	
Beer Wagon Drivers Union No. 765	.50	None		None	
Blacksmiths Union No. 43	.75	None		None	
Blacksmiths Helpers Union No. 300	.50	None		None	
Boilermakers Union No. 3	.75	None		None	
Boilermakers Helpers Union No. 7	.50	None		None	
Bookbinders Union No. 37	.50	3.00	8	None	
Boot and Shoe Workers—Bottomers Union No. 298	1.00	5.00	13	None	
Boot and Shoe Workers—Cutters Union No. 281	1.00	5.00	13	None	
Boot and Shoe Workers—Fitters and Stitchers Union No. 319	1.00	5.00	13	5.00	13
Boot and Shoe Workers—Lasters Union No. 419	1.00	5.00	13	None	
Brassworkers Union No. 273	.80	None		None	
Brewers Union No. 97	.50	None		None	
Bricklayers Benevolent Union No. 1	33 1/4	None		None	
Brushmakers Union No. 14	.50	None		None	
Cabinet Makers Union No. 80	.50	None		None	
Carpenters Union No. 87	.50	None		None	
Cigarmakers Protective Union No. 98	1.25	5.00	13	None	
Clerks Retail Union No. 2	.50	5.00	12	None	
Cooks Union No. 271	.50	None		None	
Coopers Union No. 61	.50	None		None	
Dressmakers Union No. 2	.10	None		None	
Electrical Workers Union No. 2	.50	None		None	
Electrotypers Union No. 45—St. Paul and Minneapolis	.50	None		None	
Engineers—Hoisting Engin. Union No. 84	.50	None		None	
Engineers—Steam Engineers Union No. 36	.50	None		None	
Engineers Steam Engin. Union No. 236	.50	None		None	
Expressmens Union No. 64	.50	None		None	
Firemens (Stationary) Union No. 48	.50	None		None	
Furriers Union No. 1	.50	5.00	13	None	
Garment Workers Union No. 171	.25	None		None	
Hack and Cab Drivers Union	.50	5.00	8	None	
Horseshoers Union No. 28	.50	5.00	6	None	
Ice Wagon Drivers and Helpers Union No. 756	.50	None		None	
Lathers Union No. 194	.50	None		None	
Leather Workers Union No. 19	1.25	5.00	13	None	
Letter Carriers Branch No. 28	.25	None		None	
Machinists Union No. 469—Contract Machinists	1.00	4.00	13	None	
Machinists Union No. 112—Locomotive Machinists	1.25	4.00	13	4.00	13
Machinists Specialists Union No. 718 (Twin Cities)	1.00	None		None	
Meat Cutters and Butchers Workmens Union	.50	5.00	13	None	
Molders—Iron—Union No. 232	1.20	5.25	13	5.25	13
Musicians Protective Association No. 30	.75	None		None	
Painters Union No. 61	.55	4.00	7	None	
Pattern Makers—St. Paul and Minneapolis Union	1.00	4.00	13	None	
Plasterers Association No. 20	.50	None		None	
Plumbers Union No. 34	2.00	5.00	13	None	
Postoffice Clerks Branch No. 23	.25	None		None	
Press Assistants Union No. 55	.75	4.00	13	None	
Pressmens Union No. 23	.75	None		None	
Pressfeeders—Juniors—Union No. 55	.55	4.00	13	None	
Printers—Typographical Union No. 30	.40	5.00	8	5.00	8
Railroad—Carmens Union No. 118	.40	None		None	
Railroad—Conductors Division No. 40	.50	None		None	
Railroad—Loco. Engineers Division No. 150	1.25	None		None	

Members of the Various Organizations in St. Paul, 1906.

Strike Benefit		Out of Work Benefit		Funeral and Death Benefit	Other Benefits
Amount per Week	How Many Weeks	Amount per Week	How Many Weeks		
\$6.00	Indefinite	None	.....	None	
7.00	Indefinite	None	.....	\$80-500	According to length of membership.
None	.....	None	.....	100.00	
None	.....	None	.....	22.00	
None	.....	None	.....	25.00	Dues paid during sickness.
5.00	Indefinite	None	.....	None	
5.00	Indefinite	None	.....	None	
5 & 7	Indefinite	None	.....	200.00	
5 & 7	Indefinite	None	.....	None	
5 & 7	Indefinite	None	.....	120.00	
4.00	Indefinite	None	.....	50.00	After two years membership \$100.00.
4.00	Indefinite	None	.....	50.00	After two years membership \$100.00.
4.00	Indefinite	None	.....	50.00	After two years membership \$100.00.
4.00	Indefinite	None	.....	50.00	After two years membership \$100.00.
6.00	Indefinite	None	.....	100.00	
6.00	.....	None	.....	80.00	
5 & 7	Indefinite	None	.....	150.00	\$75.00 at death of wife of member.
4 & 6	26 weeks	None	.....	None	
5.00	Indefinite	None	.....	50.00-100.00	
6.00	Indefinite	None	.....	15.00	\$50.00-200.00 from International Organiza.
5.00	Indefinite	\$3.00	\$18.00	80.00	\$40.00 at death of wife.
None	.....	None	.....	25.00-250.00	
None	Indefinite	None	.....	None	
None	.....	dues paid	.....	None	
None	.....	None	.....	None	
5 & 7	Indefinite	None	.....	60.00	
None	.....	None	.....	None	
10.00	Indefinite	None	.....	None	
10.00	Indefinite	dues paid	.....	50.00	
None	.....	None	.....	None	
None	.....	None	.....	None	
None	.....	None	.....	50.00	
None	.....	None	.....	50.00	
None	.....	None	.....	50.00	
8.00	Indefinite	None	.....	50.00	
None	.....	None	.....	None	
None	.....	None	.....	100.00	
5.00	Indefinite	1.25	.....	40.00-100.00	
None	.....	None	.....	None	Insurance from \$500.00 to 3,000.00 optional
5 & 7	Indefinite	None	.....	50.00-200.00	
5 & 8	Indefinite	no dues	.....	75.00-300.00	
.....	.....	None	.....	50.00-200.00	
5.00	.....	None	.....	100.00	
7.00	Indefinite	no dues	13	100-200	
None	.....	None	.....	75.00	
7.00	Indefinite	None	.....	150.00	\$50.00 at death of wife of member.
7.00	Indefinite	1.00	.....	50.00	
7 & 10	Indefinite	None	.....	100.00	
5.00	Indefinite	None	.....	100.00	
None	.....	None	.....	None	
.....	.....	None	.....	75.00	
10.00	Indefinite	None	.....	100.00	
None	.....	None	.....	75.00	
7 & 10	Indefinite	None	.....	75.00	Also Int. Death Benefit \$70.00.
5.00	.....	None	.....	.....	\$1,000.00 insurance optional to members.
.....	.....	.....	.....	100.00	Mutual Benefit Insurance.
45.00 per month	.....	.....	.....	.....	Life and Disability Insurance \$1,500 to 4,500.

TABLE II.-

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per Week	How Many Weeks	Amount per Week	How Many Weeks
Railroad—Loco. Engineers Division No. 349	1.25	None		None	
Railroad—Loco. Engineers Division No. 516	.50	None		None	
Railroad—Loco. Engineers Division No. 369	.50	10.00	15	10.00	E
Railroad—Loco. Firemens Lodge No. 358	2.00				
Railroad—Loco. Firemens Lodge No. 460	2.00				
Railroad—Loco. Firemens Lodge No. 320	2.00				
Railroad—Switchmens Lodge No. 31	.75			5.00	2
Railroad—Trainmens Lodge No. 122	2.50	None		None	
Sheet Metal Workers Union No. 42	.50	None		None	
Sign Writers—St. Paul and Minneapolis Union No. 880	.50	None		None	
Steam Fitters Union No. 9	.65	None		None	
Steam and Hot Water Fitters Un. No. 455	1.30	5.00	13	5.00	H
Stone Cutters Union	.50	None		None	
Stone Masons Union	.50	None		None	
Structural Iron Workers Union No. 94	.50	None		None	
Suspender Workers—Federal Ladies Union No. 10238	.25	None		None	
Tailors Union No. 88	.65	None		None	
Tailors Journeymen Self Protective Ass'n	.25	None		None	
Team Drivers Union No. 246	.50	None		None	
Team Owners Union No. 120	.60	None		None	
Theatrical Stage Employees Union No. 20	.50	None		None	
Walters and Waitresses Alliance No. 43	50 & .60	None		None	
Railroad—Loco. Firemens Lodge No. 61	1.00	None		None	
Railroad—Loco. Engineers Lodge No. 474	.46	None		None	

Continued.

Strike Benefit		Out of Work Benefit		Funeral and Death Benefit	Other Benefits
Amount per Week	How Many Weeks	Amount per Week	How Many Weeks		
45.00	per month	None	.....	Life and	Disability Insurance \$1,500 to 4,500.
45.00	per month	None	.....	Life and	Disability Insurance \$1,500 to 4,500.
45.00	per month	None	.....	Life and	Disability Insurance \$1,500 to 4,500.
None	.....	None	.....	None	
25.00	per month	None	.....	100.00	
25.00	per month	None	.....	100.00	Insurance \$500.00 to \$3,000.00.
25.00	per month	None	.....	50.00	Insurance \$300.00 to 1,200.00.
35.00	per month	None	.....		\$1,000.00 insurance optional to members.
10.00	indefinite	None	.....	150.00	
None	.....	None	.....	100-150	
5.00	indefinite	None	.....	None	
5.00	16	None	.....	100.00	
7.00	indefinite	None	.....	100.00	
None	.....	None	.....	100.00	
5.00	indefinite	None	.....	100.00	
5.00	13	None	.....	None	
6-8	6	None	.....	100.00	after five years membership.
6-8	indefinite	None	.....	None	
5.00	indefinite	None	.....	None	
5.00	indefinite	None	.....	None	
None	indefinite	None	.....	None	
None	indefinite	None	.....	50.00-100.00	
25.00	per month	None	.....		Insurance \$500.00 to 3,000.00.
None	.....	None	.....	None	

TABLE II.—Showing Dues Paid and Benefits to

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per Week	How Many Weeks	Amount per Week	How Many Weeks
Bakers and Confectioners Union No. 109..	\$.60	\$6.00	26	None	.....
Journeyman Barbers Union No. 67.....	.60	5.00	22	None	.....
Brotherhood of Boilermakers and Ship- builders No. 185.....	.75	None	.....	None	.....
Bookbinders Union No. 81.....	.50	None	.....	None	.....
Brewery Workers Union No. 133.....	.50	None	.....	None	.....
Bricklayers Union No. 3.....	.30	None	.....	None	.....
Builders Laborers Union No. 173.....	.80	None	.....	.....	.....
Carpenters and Joiners Union No. 361.....	.25	None	.....	.....	.....
Cigar Makers Union No. 294.....	1.20	5.00	13	.....	.....
Retail Clerks Union No. 3.....	.75	5.00	12	.....	.....
Harbor Cooks Union.....	.50	.....	.....	.....	.....
Cooks and Waiters Union No. 63.....	40 & .75	5.00	13	.....	.....
Dock and Ship Carpenters Union No. 1461.....	.50	.....	.....	.....	.....
Steam Engineers Union No. 15.....	.50	.....	.....	.....	.....
Electrical Workers Union No. 31.....	.75	None	.....	None	.....
Stationary Firemens Union No. 137.....	.25	.....	.....	.....	.....
Freight Handlers Union No. 64.....	.50	.....	.....	.....	.....
Grain Trimmers Union No. 218.....	.50	.....	.....	.....	.....
Horse Shoers Union No. 69.....	.50	.....	.....	.....	.....
Wood, Wire and Metal Lathers Union No. 12.....	.75	.....	.....	.....	.....
Leather Workers Union—Zenith No. 63.....	1.00	5.00	13	.....	.....
Longshoremen, Marine and Transport Workers Association No. 12.....	.50	.....	.....	.....	.....
Machinists Union No. 274.....	1.00	.....	.....	.....	.....
Meat Cutters and Butchers Workmen Un. Iron Molders Union No. 315.....	.66 2/3 1.00	5.00 7.00	6 Indefinite	\$5.00	.....
Musicians Union No. 18.....	.16 2/3	.....	.....	.....	.....
Painters, Decorators and Paperhangers Union No. 106.....	.60	4.00	9	4.00	9
Plasterers Union No. 53.....	.50	5.00	30	None	.....
Pattern Makers Union No. 127.....	.50	5.00	15	5.00	.....
Plumbers Union No. 11.....	1.30	5.00	13	5.00	.....
Typographical Union No. 136.....	.90	5.00	7	.....	.....
Duluth and Superior Printing Pressmens Union No. 53.....	1.50	.....	.....	.....	.....
Railway—Carmens Lodge No. 124.....	.25	5.00	.....	5.00	.....
Railway—Conductors Union No. 336.....	.50	.....	.....	.....	.....
Railway—Firemens—Agate Lodge No. 519.....	.....	.....	.....	.....	.....
Railway—Engineers—Missabe Lodge No. 395.....	.75	.....	.....	.....	.....
Railway—Switchmens Union.....	.50	.....	.....	7.00	8
Railway—Trainmens Union No. 569.....	2.50	.....	.....	.....	.....
Steam Fitters Association No. 426.....	1.20	5.00	13	.....	.....
Journeyman Stone Cutters Union.....	.50	None	.....	None	.....
Stone Masons Union No. 4.....	.25	.....	.....	.....	.....
Journeyman Tailors Union No. 97.....	.65	.....	.....	.....	.....
Team Drivers Union No. 411.....	.50	4.00	8	.....	.....
Theatrical Stage Empl. Union of Duluth and Superior No. 32.....	.25	.....	.....	.....	.....
Tile Layers and Helpers Union No. 51.....	50 & .75	None	.....	None	.....
Sheet Metal Workers Union No. 32.....	.55	5.00	6 mos.	.....	.....
Licensed Tugmens Protective Association.....	.55	.....	.....	.....	.....
Tug Firemen and Linemens Protective Association.....	.50	.....	.....	.....	.....

Members of the Various Organizations in Duluth, 1906.

Strike Benefit		Out of Work Benefit		Funeral and Death Benefit	Other Benefits
Amount per Week	How Many Weeks	Amount per Week	How Many Weeks		
\$3.00	indefinite	None		None	
7.00					
None		None		\$50.00	
5.00	indefinite	None		None	
5 & 7	indefinite	None		\$50.00	
				200.00	\$50.00 at death of wife of member.
5.00	indefinite	\$3.00		50.00-550.00	according to length of membership.
				50.00-250.00	according to length of membership.
				50.00	
				50.00-200.00	Total disability \$100.00 to 400.00. Wife's death \$25.00 to \$50.00.
None		None		100.00	
				100.00	
				100.00	
5.00	indefinite			100.00	
				150.00	
7.00				50 and up	
				150.00	
7.00	indefinite			100-150	
				150.00	
None		None		50.00	
5.00	indefinite	None		100.00	
5.00				100.00	
5 & 7	indefinite			70.00	
8.00	10			100.00	
None		None			Life and Disability Ins., maximum \$3,000.
50 per month, 3 months					Life and Disability Ins., \$500.00 to 3,000.00.
				150.00	
5.00				100.00	
5.00	indefinite	None		100.00	
7.00				50.00	
6.00				25.00-100.00	
None		None		None	

TABLE II.—

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per Week	How Many Weeks	Amount per Week	How Many Weeks
Brainerd.					
Barbers Union No. 472.....	\$.60	\$5.00	26	None	
Blacksmiths Union No. 51.....	.50	None		None	
Boilermakers Union No. 116.....	1.00	None		None	
Boilermakers Helpers Union No. 89.....	1.00	None		None	
Butchers Union.....	.55	None		None	
Carpenters Union No. 951.....	.50	1.50-4.00	13	None	
Clerks—Retail—Union No. 206.....	.50	None		None	
Machinists—Locomotive—Union No. 197.....	1.00	Dues paid		None	
Molders—Iron—Union No. 226.....	1.08½	5.25	13	None	
Letter Carriers Union No. 364.....	.08½	None		None	
Printers Union No. 593.....	.50	None		None	
Railway—Carmens Union No. 133.....	33½	None		None	
Railway—Trainmens Union No. 683.....	1.75-2.75	None		None	
Sheet Metal Workers Union No. 241.....	.50	None		None	
Tailors Union No. 171.....	.60	3.00	10	None	
Railway—Loco. Firemens Lodge No. 636..	1.25	None		None	
St. Cloud.					
Barbers Union No. 549.....	.60	5.00	13	None	
Brewery Workers Union No. 338.....	.50	5.00	13	None	
Bricklayers and Stone Masons Union No. 15	.35	None		None	
Carpenters Union No. 930.....	.50	None		None	
Cigar Makers Union No. 315.....	1.20	5.00	13	None	
Electricians Union No. 338.....	.75	None		None	
Engineers Union No. 268.....	.50	None		None	
Granite Cutters, Polishers and Tool Sharpeners Union.....	1.00	None		None	
Painters, Decorators and Paperhangers Union No. 568.....	.50	None		None	
Printers, Typographical Union No. 630.....	.50	None		None	
Team Drivers Union.....	.35	5.00	13	None	
Quarrymens Union.....	.50	None		None	
Federal Labor Union No. 11426.....	.50	None		None	
Winona.					
Typographical Union No. 246.....	.55	None		None	
Barbers Union No. 38.....	.60	5.00	5	\$5.00	5
Bartenders Union No. 481.....	.50	None		None	
Blacksmiths Union No. 108.....	.50	None		None	
Boilermakers.....	1.00	None		None	
Brewers and Malsters Union No. 231.....	.55	None		None	
Bricklayers Union No. 7.....	.25	None		None	
Carpenters and Joiners Union No. 307.....	.50	4.00	13	4.00	13
Cigar Makers Union No. 70.....	1.20	5.00	13	5.00	12
Clerks—Retail Clerks Union No. 52.....	.50	5.00	12	5.00	12
Coopers Union No. 199.....	.40	None		None	
Electrical Workers Union No. 74.....	.75	None		None	
Engineers—Stationary Engineers Union No. 4.....	.25	None		None	
Miscellaneous—Federal Union No. 11044..	.25	None		None	
Iron Moulders Union No. 264.....	1.50	5.25	13	5.25	13
Machinists Union No. 133.....	1.00	3.00	12	3.00	12
Plumbers Union No. 6.....	1.25	5.00	13	5.00	12
Painters Union No. 540.....	.50	None		None	
Sheet Metal Workers Union No. 232.....	.50	None		None	
Shoe Repairers Union No. 410.....	1.00	5.00	13	5.00	13
Stone Cutters Union.....	.50	None		None	
Stone Masons Union No. 6.....	.25	None		None	
Team Drivers Union No. 137.....	.50	None		None	
Team Owners Union No. 132.....	.25	None		None	
Woodworkers Union No. 42.....	.50	3.00	8	3.00	8
Railway—Carmens Union No. 180.....	.35	None		None	
Railway—Maintenance of Way Union No. 33.....	.50	None		None	
Railway—Trainmens Union No. 510.....	2.50	None		None	

Continued.

Strike Benefit		Out of Work Benefit		Funeral and Death Benefit	Other Benefits
Amount per Week	How Many Weeks	Amount per Week	How Many Weeks		
None		None		\$60.00	
\$5.00	Indefinite	None		None	
6.00	Indefinite	None		None	
5 & 7	Indefinite	None		None	
None		None		200.00	
None		None		200.00	\$50 at death of wife of member.
None		None		100.00	
7.50	Indefinite	no dues	13		Grand Lodge death benefit.
None		no dues		None	
5 & 7		no dues		70.00	
None		no dues		None	
30.00 per month		no dues		Funeral expenses. \$500.00 to 1,350.00 at tot. disability.	
None		no dues		100.00	
None				50.00	
		no dues		None	Life and disability insurance.
5.00	Indefinite	None		50.00-200.00	
None		None		None	
None		None		None	
None		None		50.00-200.00	\$50.00 at death of wife of member.
5.00	Indefinite	3.00	13	50.00-550.00	
None		None		100.00	
None		None		None	
None		None		50.00-200.00	
None		None		50.00-150.00	\$50.00 at death of wife of member.
None		None		50.00	
None		None		50.00	
None		None		50.00	
None		None		None	
5 & 7		None		70.00	
None		None		60.00-500.00	
None		None		50.00	
5.00	Indefinite	None		None	
5.00	Indefinite	None		100.00	
5 & 7		None		None	
5.00		None		None	
5.00	Indefinite	None		75.00	\$25.00 at death of member's wife.
5.00	16	3.00	6	50.00-550.00	Travelling loan \$20.00.
None		None		25.00-200.00	
5.00	Indefinite	None		None	
5.00	Indefinite	None		100.00	
None		None		None	
None		None		None	
7.00	13	dues paid		150.00	
5 & 7	Indefinite	None		50.00-200.00	
5 & 7	16	None		100.00	
5 & 7	Indefinite	None		50.00-150.00	Disability benefit \$50.00.
5 & 7	12	None		100.00	
5.00	Indefinite	None		100.00	
5.00	Indefinite	None		100.00	
None		None		Assessment \$1.00 per member.	
None		None		None	
None		None		None	
None		None		75.00	
5.00	Indefinite	None		None	
5.00	Indefinite	None		None	
30.00 monthly		None		None	Insurance \$500.00 to 1,350.00.

TABLE II.—

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per Week	How Many Weeks	Amount per Week	How Many Weeks
Mankato.					
Barbers Union No. 998.....	.60	5.00	20	None	
Carpenters & Joiners Union No. 992.....	.50	None		10.00	4
Labors Protective Union No. 10215.....	.50	All benefits have to be decided by Union			
Stone Cutters Union.....	.35 & .50	None		None	
Steam Engineers Union.....	.50	None		None	
Brewery and Malt Workers Union.....	.50	None		None	
Bricklayers Union No. 11.....	.25	None		None	
Cigar Makers Union No. 361.....	1.50	5.00		None	
Sheet Metal Workers Alliance.....	.50	None		None	
Railway Carmens Union.....	.25	None		None	
Railway Bridge Carpenters Union.....	.35	None		None	
Stillwater.					
Bricklayers, Masons and Plasterers Union No. 9.....	.50	3.00	12	None	
Carpenters and Joiners Union No. 967.....	.35 & .55	None		None	
Typographical Union No. 432.....	.50	None		None	
Painters, Paperhangers and Decorators Union No. 723.....	.50	None		None	
Two Harbors.					
Boilermakers & Iron Ship Builders Union.....	.75	None		None	
Machinists Union.....	1.00	None		None	
Retail Clerks Union No. 930.....	.35 & .50	5.00	12	None	
Railway Carmens Union No. 145.....	.25	None		None	
Railway Trainmens Lodge No. 339.....	2.00	None		None	
Railway Conductors Division No. 360.....		None		None	
Red Wing.					
Brewery Workmens Union No. 174.....	.50	None		None	
Carpenters & Joiners Union.....	.50	None		None	
Stoneware Potters Union No. 8302.....	.25	None		None	
Barnesville.					
Machinists Union No. 2.....	1.00	None		None	
Railway—Loc. Firemens Lodge No. 483.....	.50	None		None	
Hastings.					
Millers Union No. 49.....	.50	None		None	
Waseca.					
Railway—Conductors Division No. 90.....	.45	None		None	
Railway—Trainmens—Sanborn Lodge.....	2.50	Expenses until well		Expenses until well	
Railway—Loc. Firemens Lodge.....	2.50	None		None	
Railway—Loc. Engineers Lodge.....	.50	None		None	
Railway—Trainmens Lodge.....	.50	None		None	
Willmar.					
Railway—Trainmens Lodge No. 640.....	1.50-2.75	None		None	
Railway—Loc. Engineers Division No. 549.....	1.10	None		None	
Railway—Loc. Firemens Lodge No. 95.....	.32 1/2	None		None	
Austin.					
Railway—Locomotive Engineers Division No. 102.....	.75	None		None	
Railway—Locomotive Firemen, Division No. 126.....	1.25	None		None	
Railway—Conductors, Division No. 215.....	.40	None		None	
Railway—Trainmen, Lodge No. 283.....	2.25	None		None	
Bricklayers and Stonemasons Union No. 12.....	.25	None		None	

[illegible]

TABLE II.—

Name of Organization	Monthly Dues per Member	Sick Benefits		Accident Benefit	
		Amount per week	How Many Weeks	Amount per week	How Many Weeks
Staples.					
Railway—Carmens Lodge .....	.25	None		None	
Railway—Locomotive Firemen, Resur- rection Lodge No. 443		None		None	
Tracy.					
Railway—Carmens Lodge .....	.15	None		None	
Proctorknott.					
Railway Conductors—Missabe Lodge No. 405 .....	.37½	None		None	
East Grand Forks.					
Railway—Locomotive Firemens Lodge .....	.17	None		None	
Montevideo.					
Railway—Conductors, Division No. 99 .....	.35-1.25	None		None	
Railway—Locomotive Firemen, Lodge No. 579 .....	.15- .45	None		None	
Albert Lea.					
Barbers Journeymen Union .....	.60	5.00	20	None	
Bricklayers and Masons Union No. 10 ..	.33½	None		None	
Carpenters Union .....	.50	None		None	
Railway Switchmens Union .....	.35-1.35	10.00	52	10.00	52
Railway Carmens Union .....	.25	None	52	None	
Sandstone.					
Paving Stone Cutters Union No. 15 .....	.30	None		None	
Sandstone Cutters Union .....	.50	None		None	
St. James.					
Railway Trainmens Union	1.25-2.50	None		None	
Ortonville.					
Granite Cutters Union	1.00	None		None	
Kasota.					
Stone Cutters .....	.50	None		None	
Rochester.					
Bricklayers, Masons and Plasterers Union No. 8 .....	.25	None		None	
Carpenters Union No. 980 .....	.60	None		None	
Cigar Makers Union No. 271	1.20	5.00	13	5.00	13
Federal Laborers Union No. 121 .....	.25	None		None	
Faribault.					
Carpenters Union No. 397 .....	.50	None		None	
Cigar Makers	1.20	5.00	13	5.00	13
Steam Engineers Union No. 229 .....	.50	None		None	
Crookston.					
Cigar Makers Union No. 331	1.20	5.00	13	5.00	13
Typographical Union No. ....	.40				

Continued.

Strike Benefit		Out of Work Benefit		Funeral and Death Benefit	Other Benefits
Amount per Week	How Many Weeks	Amount per Week	How Many Weeks		
None	.....	None	.....	None	
None	.....	None	.....	None	Life and accident insurance.
None	.....	None	.....	None	
50.00	per month	None	.....	None	
10.00	.....	None	.....	None	
50.00	per month	None	.....	None	
None	.....	None	.....	.....	Insurance \$500.00 to 1,500.00.
None	.....	None	.....	60.00-500.00	
None	.....	None	.....	None	
None	.....	None	.....	50.00	
None	.....	None	.....	100.00	
None	.....	None	.....	None	
None	.....	None	.....	75.00	
6.00	.....	None	.....	100.00	
35.00	per month	None	.....	.....	Death and disability insurance.
6.00	.....	None	.....	125.00	Age benefit fund.
5.00	.....	None	.....	100.00	
None	.....	None	.....	None	None.
None	.....	None	.....	50.00-200.00	
5.00	16	3.00	6	50.00-550.00	Traveling loan \$20.00.
None	.....	None	.....	100.00	
6.00	.....	None	.....	50.00-200.00	
5.00	16	3.00	6	50.00-550.00	Traveling loan \$20.00.
None	.....	None	.....	None	None.
5.00	16	3.00	6	50.00-550.00	Traveling loan \$20.00.
7 - 10 during strike	.....	.....	.....	60.00	

TABLE III.—Showing Daily and Weekly Working Hours, Daily Rate of Wages, Increase in Wages Since 1904, and Decrease in Working Hours in Specified Industries, Trades and Occupations in the City of Minneapolis.

Trade or Occupation	Working Hours		Daily Wages, Union Scale		What Increase in Wages Since 1904	What Decrease in Working Hours Since 1904
	Daily	Weekly	Male	Female		
Bakers and confectioners.....	10	60	\$2.85%	.....	None	None.
Barbers.....	10 1/4	66 1/4	2.00	.....	None	None.
Bartenders.....	10	60	2.00-2.50	.....	None	None.
Beer bottlers.....	9	54	2.00	.....	None	None.
Beer wagon drivers.....	10	60	2.50	.....	None	None.
Billposters.....	10	60	2.10	.....	None	None.
Bindery girls.....	9	54	.....	\$1.25	None	None.
Blacksmiths.....	9	54	2.50	.....	None	None.
Boilermakers.....	10	60	3.60	.....	15c. per day	None.
Boilermakers helpers.....	9	56	1.80	.....	5c. per day	None.
Bookbinders.....	9	54	2.50	.....	Two per cent.	None.
Boot and shoe workers.....	8	48	2.50	.....	None	None.
Brewers and malsters.....	8	48	2.92	.....	None	None.
Bricklayers.....	8	48	4.40	.....	None	None.
Bridge and structural iron workers.....	8	48	4.00	.....	10c. per hour	None.
Brooms makers.....	9	54	2.00	.....	10c. per hour	None.
Cabinet makers.....	10	60	2.50	.....	10c. per hour	None.
Carpenters and joiners.....	8	48	3.00	.....	10c. per hour	None.
Cigar makers.....	8	48	2.15	.....	2.15 10c. per hour	None.
Clerks retail.....	9 1/4	57	2.35	.....	1.00 10c. per hour	None.
Coopers.....	7	42	3.00	.....	10c. per hour	None.
Electricians.....	8	48	2.85	.....	10c. per hour	None.
Electrical workers.....	8	48	3.82 1/4	.....	Monthly men \$5.00 per month	None.
Engineers, hoisting.....	9	56	2.50	.....	None	None.
Engineers, steam.....	10	60	2.00	.....	Ten per cent.	None.
Firemen.....	8	48	2.00	.....	\$5.00 per month	None.
Flour mill employees.....	8	48	2.77	.....	None	None.
Flour mill-hallers and packers.....	9	54	2.25	.....	Decrease 25 cents	None.
Furniture finishers.....	9	56	2.25	.....	None	None.
Furriers.....	9	53	3.00	.....	1.50	None.
Garnment workers.....	9	54	2.25	.....	1.25	None.
Hack drivers.....	10 1/4	57 1/4	1.25	.....	Decrease 10 per cent.	None.
Horsehoers.....	.....	.....	.....	.....	.....	.....
Ice wagon drivers.....	10	59	2.50-3.00	.....	None	None.
Lathers.....	8	48	2.76	.....	None	None.
Leather workers.....	10	55	4.00	.....	None	None.
			2.00	.....	10 per cent.	None.

Occupation	Number	Wage	Hours	Notes
Machinists—contract	10	2.75	56	None
Machinists—locomotive	8-10	pr. hr. 3.44	48-60	None
Machinists, specialist	10	2.06	59	5 per cent increase
Mason tenders	8	2.80	48	None
Meat cutters	12	2.00	72	None
Metal polishers	8	2.75	48	None
Millwrights	8	3.20	48	None
Mineral and soda water bottlers	10	2.00	54	One hour
Molders, iron	9	3.00	54	5 per cent
Musicians	6	3.00-5.00		2.00-3.00
Painters, decorators and paper-hangers	8	3.00	48	None
Paperhangers	8	3.40	48	None
Photo-engravers	8	3.00-3.50	48	None
Plasterers	8	4.50	44	None
Plumbers, gas and steam fitters	44	4.50	44	50 cents per day
Plumbers laborers	8	2.25	48	None
Pressfeeders	9	1.50	54	None
Pressfeeders assistants	9	1.75	54	None
Pressmen	9		53	None
Printers—Germ.-Am. Typographical Union	8	3.00	48	One hour
Printers typographical union	7-9	3.00	42-54	None
Railway carmen	10-13	1.76-1.95	70-91	None
Railway conductors	10	3.00-4.50	70-91	12 to 15 per cent
Railway locomotive engineers	10	3.00-4.50	70	From 2 to 5 per cent for some work
Railway locomotive firemen	10-14	1.90-4.25	70-84	5 per cent
Railway switchmen	10-12	2.80-3.10	70-84	None
Railway track workers	10-14	1.50-2.00	70-84	\$5.00 per month
Railway trainmen	10-15	2.30-2.50	70-112	None
Railway water supply men	8	75.00 100.00		None
Sheet metal workers	8	3.20	48	5 cents per hour
Steam fitters	8	4.00	48	None
Steam fitters helpers	8	2.00	48	None
Stereotypers	8	2.50	48	None
Stone cutters	44	4.00	44	None
Stone masons	8	4.00	48	None
Suspender workers	84		51	1.25
Tailors	94	2.50	57	2.50
Team drivers	10	2.00	60	None
Theatrical stage employees	10	2.00	70	45 per cent
Tile and marble setters	9	2.50-3.50	54	None
Woodworkers	10	2.00	60	None

TABLE III. Showing Daily and Weekly Working Hours Increase in Wages and Decrease in Working Time in Specified Industries. Trades and Occupations Since 1904 in the City of St. Paul.

Trade or Occupation	Working Hours		Daily Wages, Union Scale		What-Increase in Wages Since 1904	What Decrease in Working Hours Since 1904
	Daily	Weekly	Male	Female		
Bakers	10	60	\$3.00	.....	None	None.
Barbers	11	72	2.25	.....	None	One hour per day.
Bartenders	10	70	2.50	.....	None	None.
Beer bottlers	9	54	2.00	.....	None	None.
Beer wagon drivers.....	10	60	55.00-80.00 monthly	.....	None	None.
Blacksmiths	10	60	3.00-4.00	.....	None	None.
Blacksmith's helpers	10	60	2.00-2.25	.....	None	None.
Bollermakers	10	59	3.60	.....	60 cents per day	None.
Bollermaker's helpers	10	59	2.30	.....	None	None.
Bookbinders	9	54	3.00	.....	None	None.
Boot and shoe workers—boot- tomers	10	59	2.50	.....	5 per cent.	None.
Boot and shoe workers—cutters	10	59	2.50	.....	None	None.
Boot and shoe workers—fitters and stitchers.....	10	50	.....	\$3.00 w'kly	None	None.
Bras workers	8	48	2.75	.....	None	None.
Brewers	8	48	2.65	.....	30 per cent.	None.
Bricklayers	8	48	4.40	.....	10 cents per hour.	One hour.
Brushmakers	10	59	2.50	.....	None	None.
Cabinetmakers	9	54	2.00-3.00	.....	2 per cent.	None.
Carpenters	8	48	3.00	.....	None	None.
Cigarmakers	8	48	2.00	2.00	None	None.
Clerks—retail	9	53	2.50-4.25	1.00	None	None.
Cooks	14	98	2.50	.....	None	None.
Coopers	9	53	2.50	.....	None	None.
Dressmakers	9	54	.....	2.00	None	None.
Electrical workers.....	8	48	3.00	.....	None	None.
Electrotypers	9	54	3.50	.....	10 per cent.	None.
Engineers—hoisting	10	59	4.00	.....	None	None.
Engineers—steam	8-12	56-60	3.00	.....	10 per cent for some members.	None.
Engineers—steam, stationary	8-14	56-98	2.10	.....	None	None.
Expressmen	No information furnished.	.....	.....	.....	.....	.....
Firmen	8-12	48-72	2.00	.....	None	None.
Furriers	9	53	piecework	.....	None	1/4 hour per day.
Garment workers.....	9	50	3.00	1.35	5 per cent.	4 hours per week.
Hack drivers.....	No information furnished.	.....	.....	.....	.....	.....

Horseshoers	9	53	2.75	None	None	None
Ice wagon drivers	12	84	2.50	None	None	None
Leathers	8	48	3.65	50 cents per day	None	None
Leather workers	10	60	2.00	None	None	None
Letter carriers	8	48	2.90	None	None	None
Machinists—contract	10	54	3.45	50 cents to \$1.00 per day	None	None
Machinists—locomotive	10	59	2.05	25 cents per day	None	None
Machinists—specialists	10	67	2.50	9 per cent	None	None
Meat cutters	10 $\frac{1}{2}$	67	3.00	5 per cent	None	None
Molders—iron	9	54	5.00	25 per cent	None	None
Musicians	8	48	3.00	None	None	None
Painters	8	60	3.00	None	None	None
Patternmakers	10	60	4.50	None	None	None
Plasterers	8	48	4.00	None	None	None
Plumbers	8	48	4.00	None	None	None
Postoffice clerks	8	48	1.80	None	None	None
Pressfeeders assistants	9	54	3.50	1.50	None	None
Pressmen	9	54	1.00	None	None	None
Pressfeeders—juniors	9	53	3.15	None	None	None
Printers	8	48	2.10	3.15 per cent on newspaper work	2 hours in job shops.	None
Railroad—carmen	10	59	3.40	None	None	None
Railroad—conductors	10	70	3.00-4.00	None	None	None
Railroad—locomotive firemen	10	70	2.50-3.00	None	None	None
Railroad—locomotive firemen	10	70	2.90	10 per cent for some members	None	None
Railroad—switchmen	10	70	2.25	For some work 15 per cent	One hour.	None
Railroad—trainmen	10	70	3.20	None	None	None
Sheet metal workers	8	48	3.50	None	None	None
Sign writers	8	48	3.50	None	None	None
Steam fitters	8	48	3.60	None	None	None
Steam and hot water fitters	8	48	3.60	None	None	None
Stone cutters	8	48	4.00	None	None	None
Stone masons	8	48	4.00	None	None	None
Structural iron workers	8	48	4.00	None	None	None
Suspender makers	10	60	1.75-2.50	None	None	None
Tailors	9	54	1.75-2.00	1.00 30 per cent decrease	None	None
Tailors	10	60	1.75-2.00	1.75-2.00	None	None
Team drivers	9	54	2.25	2.25	None	None
Team owners	10	60	2.00	25 cents per day	None	None
Theatrical stage employees	8-10	48-60	4.00	None	None	None
Walters	10	70	1.50	5 per cent	None	None
Walters	10	70	1.40	.85	None	None

TABLE III.—Showing Daily and Weekly Working Hours, Increase in Wages, and Decrease in Working Time, in Specified Industries, Trades and Occupations Since 1904 in the City of Duluth.

Trade or Occupation	Working Hours		Daily Wages, Union Scale		What Increase in Wages Since 1904	What Decrease in Working Hours Since 1904
	Daily	Weekly	Male	Female		
Bakers and confectioners.....	10	60	\$ 2.50			
Barbers.....	11	69	2.50			
Boilermakers.....	9	54	3.24-3.45		2% cents per hour.....	One hour per day.
Bookbinders.....	9	53	2.50			
Brewers.....	9	54	2.50		None.....	None.
Bricklayers.....	8	48	4.80		15 cents per hour.....	One hour per day.
Builder's laborers.....	9	54	2.52		None.....	None.
Carpenters.....	8	48	3.00		None.....	None.
Cigarmakers.....	8	48	3.00		None.....	None.
Clerks—retail.....	10½	67½	2.75		5 per cent.....	None.
Cooks—harbor.....	12	84	2.50	1.15	None.....	None.
Cooks and waiters.....	11	77	2.50		None.....	None.
Dock and ship carpenters.....	10	60	3.00		None.....	None.
Engineers—stationary.....	10		3.00		25 cents per day.....	None.
Electricians.....	8	48	3.00		5 per cent.....	None.
Firemen—stationary.....	10	70	2.25		None.....	None.
Freight handlers.....	10		4.00		None.....	None.
Grain trimmers.....	10	60	3.00		None.....	None.
Horseshoers.....	9		2.75		None.....	One hour per day.
Leathers.....	8	48	3.50		None.....	None.
Leather workers.....	10		2.50		None.....	None.
Lumber graders and pilers.....	10	60	4.00		8 per cent.....	None.
Machinists.....	10	60	3.00		None.....	None.
Meat cutters.....	10½		2.50		51.00 per week.....	None.
Molders.....	9½	57	3.00		None.....	None.
Musicians.....						

Painters, decorators and paper-hangers	8	48	3.00	2½ cents per hour.	None.	None.
Plasterers	8	48	4.50	50 cents per day.	None.	None.
Patternmakers	10	60	3.25	None.	None.	None.
Plumbers	8	44-48	4.40	5 cents per hour.	One hour per day.	One hour per day.
Printers	8	48	3.00	1.50 per week.	3.00	3.00
Pressmen	9	53	3.00	30 cents per day.	None.	None.
Railway—carmen	10	60	2.00	None.	None.	None.
Railway—conductors	10	60	2.00	5 per cent.	None.	None.
Railway—locomotive firemen.	9	63	4.25	None.	None.	None.
Railway—locomotive engineers.	10	70	2.50	10-15 cents in freight service.	None.	None.
Railway—switchmen	10	70	4.00	None.	None.	None.
Railway—trainmen	10	70	2.80-3.10	15 per cent.	2 hours.	2 hours.
Steam fitters.	8	46	3.00	None.	None.	None.
Stone cutters.	8	48	4.50	10 cents per hour.	One hour per day.	One hour per day.
Stone masons.	8	48	4.00	None.	None.	None.
Tailors	8	48	2.50	2.50	5 per cent.	5 per cent.
Team drivers.	10	60	2.50	None.	None.	None.
Theatrical stage employees.	8	48	2.40	None.	None.	None.
Tile layers and helpers.	8	48	4.00	20 cents per hour.	2 hours.	2 hours.
Tinners	8	48	3.40	5 cents per hour.	None.	None.
Tugmen	24	48	4.85	None.	None.	None.
Tug firemen and linemen.	24	48	2.00	None.	None.	None.

TABLE III.—Showing Daily and Weekly Working Hours Daily Wages, Increase in Wages and Decrease in Working Time in Specified Industries, Trades and Occupations Since 1904.

Trade or Occupation	Working Hours		Daily Wages, Union Scale		What Increase in Wages Since 1904	What Decrease in Working Hours Since 1904
	Daily	Weekly	Male	Female		
Brainerd—						
Barbers	11	75	\$2.50	.....	None	None.
Blacksmiths	10	59	2.25-3.45	.....	None	None.
Bollermakers	9	54	3.10	.....	None	None.
Bollermaker helpers	9	54	1.75	.....	None	None.
Butchers	10	60-70	2.00-2.50	.....	None	None.
Carpenters	10	60	2.50	.....	None	None.
Clerks, retail	10	65	not given	.....	None	None.
Machinists	9	54	3.45	.....	None	None.
Molders	9	54	3.13	.....	None	One hour
Letter carriers	8	48	2.35	.....	None	None.
Printers	8	48	1.92	\$1.57	None	One hour
Railway carmen	9	54	2.20	.....	None	None.
Railway trainmen	10		3.15	.....	None	None.
Sheet metal workers	10	60	2.50	.....	None	None.
Tailors	10	60	2.50	.....	None	None.
Railway locomotive firemen	10		2.50	.....	Changed from monthly to mileage basis	Change to get paid for work over 10 hours per day.
St. Cloud—						
Barbers	10	65	2.25	.....	None	None.
Brewery workers	10	60	*40.00-50.00	.....	None	None.
Bricklayers and stone masons	9	54	4.00	.....	None	None.
Carpenters	10	60	3.00	.....	None	None.
Cigar makers	8	48	2.25	.....	None	None.
Electricians	9-12	54-84	2.25-3.75	.....	None	None.
Engineers	12	72	2.50	.....	None	None.
Granite cutters, polishers and tool sharpeners	8-9	48-53	2.25-3.25	.....	None	None.
Painters, decorators and paper-hangers	8	48	2.65	.....	37 cents per hour.	One hour per day.
Printers	9	54	2.50	.....	None	None.
Team drivers	9	54	2.00	.....	None	None.
Quarrymen	8	48	2.00	.....	None	One hour per day.
General federal labor	9	54	1.75	.....	None	None.

TABLE III.—Continued.

Trade or Occupation	Working Hours		Daily Wages, Union Scale		What Increase in Wages Since 1904	What Decrease in Working Hours Since 1904
	Daily	Weekly	Male	Female		
Stillwater—						
Bricklayers	9	54	4.95	.....	None	None.
Carpenters and joiners	9	54	3.70	.....	None	None.
Printers	9	54	2.40	1.65	None	None.
Masons	9	54	3.60	.....	None	None.
Plasterers	8	48	4.00	.....	None	None.
Painters, paperhangers and decorators	9	54	2.70	.....	$\frac{3}{4}$ cents per hour.	One hour.
Two Harbors—						
Boilermakers and iron ship builders	10	59	3.45	.....	None	None.
Machinists	10	59	3.45	.....	None	None.
Clerks, retail	11	.....	\$60.00-70.00	\$20.00-50.00	None	None.
Railway carmen	10	59	1.90	.....	None	None.
Railway trainmen	10	.....	3.00	.....	About ten percent.	None.
Railway conductors	10	60	3.45	.....	None	None.
Red Wing—						
Brewery workers	9	63	2.00	.....	None	None.
Carpenters and joiners	10	60	2.50	.....	None	None.
Stoneware potters	8	48	2.75	.....	None	None.
Barnesville—						
Machinists	10	56	3.45	.....	None	One hour per day.
Railway locomotive firemen	10	70	2.50	.....	None	None.
Hastings—						
Millers	8	48	1.85	.....	One dollar per week.	None.
Waseca—						
Railway conductors	10	.....	3.45	.....	None	None.
Railway trainmen	10-12	.....	2.25-2.75	.....	None	None.
Railway locomotive firemen	10-12	.....	2.75	.....	10 cents per 100 miles.	None.
Railway locomotive engineers	10	60	3.80	.....	None	None.

	No.	Rate	Mileage	Per cent.	Description
Willmar— Railway trainmen	10	2.33-2.55		About 15 percent.....	None. None. None.
Railway locomotive engineers.....	10	4.00		" " "	" " "
Railway locomotive firemen.....	..			" " "	" " "
Austin— Railway locomotive engineers.....	10	3.80-4.40		" " "	None. None. None.
Railway locomotive firemen.....	10	2.60		" " "	" " "
Railway conductors	10	2.45		" " "	None. None. None.
Railway trainmen	10	2.50		" " "	" " "
Bricklayers, stonemasons and plasterers	9	3.20-4.00		" " "	None. None. None.
Staples— Railway carmen	10-12	1.90		" " "	None. None. None.
Railway locomotive firemen.....	10	mileage		" " "	" " "
Tracy— Railway carmen	8-10	1.45		" " "	None. None. None.
Proctorknott— Railway conductors.....	..	5.00		15 percent	None. None. None.
East Grand Forks— Railway locomotive firemen.....	10	2.50		" " "	Decrease of two hours in yard switching.
Montevideo— Railway conductors	10	3.45		15 percent	None. None. None.
Railway locomotive firemen.....	no limit,	rate ac. to size of engine.....		" " "	" " "
Albert Lea— Barbers	10	2.00		" " "	None. None. None.
Bricklayers and masons.....	9	4.50		" " "	" " "
Carpenters	10	2.50		" " "	None. None. None.
Railway switchmen	11	3.15		2 cents per hour.....	" " "
Railway carmen	10-12	2.00		5 percent	None. None. None.
Sandstone— Paving stone cutters.....	9	4.00		" " "	None. None. None.
Sandstone cutters	8	4.00		10 cents per hour.....	" " "
St. James— Railway trainmen .....	..	\$2.35		" " "	None. None. None.
Ortonville— Granite cutters	8	3.25		25 cents per day	None. None. None.

TABLE III.—Continued.

Trade or Occupation	Working Hours		Daily Wages, Union Scale		What Increase in Wages Since 1904	What Decrease in Working Hours Since 1904
	Daily	Weekly	Male	Female		
Kasota—						
Stone cutters	8	48	3.50		4½ cents per day.....	One hour.
Rochester—						
Bricklayers	9	54	2.70		5 cents per hour.....	None.
Masons	9	54	4.05		5 cents per hour for 25 percent of members.....	None.
Plasterers	9	54	4.50		5 cents per hour.....	None.
Carpenters	9	54	3.15		None	None.
Cigarmakers	8	48	2.00		None	None.
Federal laborers	9	54	1.80		5 cents per day.....	None.
Faribault—						
Carpenters	10	60	2.50		None	None.
Cigarmakers	8	48	2.00		7 percent.....	None.
Steam engineers	12	72	2.00 to 4.50		10 percent to some members.....	None.
Crookston—						
Cigarmakers	8	48	3.00		None	None.
Printers	8	48	3.00	3.00	None	None.

*Monthly.

†Weekly.

‡Per 100 miles.

**EMPLOYMENT BUREAUS
FOR MALES**

EMPLOYMENT BUREAUS FOR MALES.

(Sec. 1825, Chapter 23—Revised Laws of Minnesota 1905.)

Employment bureaus or agencies for males contemplated to be operated for gain may be conducted under the following provisions: They must secure a license issued by the council of the city or village in which the agency is to be established, or, if outside a city or village, the license must come from the county board. A fee of one hundred dollars has to be paid into the respective treasury for such license. Applicant further has to deliver to the council or board a bond to the state of Minnesota in the sum of ten thousand dollars. The bond is conditioned for the payment of all damages sustained by any person engaged by the agency to labor for others, by reason of any unauthorized act, fraud or misrepresentation by the agency or any of its agents or servants. The bond must be filed with the city clerk, village recorder, or county auditor as the case may be. The license is operative so long as the licensee continues to reside or maintain his office at the place mentioned in the license and he may engage in such business in any part of the state.

The licensee is required to keep record of the terms of employment of every person by him engaged to work for another; the record must show the rate of wages, the kind of service, the period of employment, and the name and address of the person for whom the service is to be rendered. To each person so hired by him he has to furnish duplicate copies of such memorandum, one of which the person hired must deliver to the employer at the beginning of the service. Any person who fails to receive employment as provided in the memorandum, by reason of any fraud, misrepresentation or want of authority on the part of such agency or bureau, may sue and recover upon the bond all damages sustained by reason of such failure.

The operation of an employment bureau or agency, as before specified, without license, or being licensed, failure to enter memorandums of employment as specified or failure to deliver copies thereof as required, shall constitute a misdemeanor.

By virtue of the authority conferred upon the labor bureau by Sec. 1791, chapter 23, Revised Laws of 1905, it made an investigation as to the number and extent of such employment bureaus in the state, and the enforcement of the law by the local authorities as to licenses and bonds required.

At Minneapolis 25 separate employment bureaus or agencies have been in operation during 1906; three firms however, each having two offices. All agencies had furnished a bond in the sum of \$10,000 each and each had paid a license fee of \$100. With the exception of three, of which one had paid \$91.67 and the other two \$83.34 each.

At St. Paul 12 employment agencies were found, each of which had paid a license fee of \$100, and their bonds were made out in the sum of \$10,000.

At Duluth 15 separate employment offices were in operation during 1906, one firm maintaining three offices, and another two. The license fee in each instance was \$100. but under some misconception of the statutes, a bond of only \$1,000 in each case was required by and furnished to the city. The local authorities, however, having their attention called to this error have signified their readiness henceforth to observe these provisions of the statute.

At Virginia the labor department during 1906, found in operation three employment bureaus without having been licensed or having been required to furnish the prescribed bond. This violation, growing more out of want of knowledge of the law than from a desire of evading its obligations, the department rather than prosecute called the attention of the local authorities to the matter and the city attorney was instructed to enforce compliance with the law. This being of but recent date, the results can not be shown in this report.

A tabulated report showing the number and names of each employment office in the respective cities, together with the amount of license fees, the sum of the bond and names of sureties are annexed.

Licensed Employment Agencies in the State in 1906.

Name of Firm	Place of Business	License Fee	Sureties on Bonds of \$10,000
City of Minneapolis.			
Brugger, W. M.	5 First Street, North	\$100.00	Metropolitan Surety Company.
Stoneberg, Ole	13 First Street, North	91.67	Metropolitan Surety Company.
Munice, Ole	22 First Street, North	100.00	Metropolitan Surety Company.
Burns, Stephen	23½ First Street, North	100.00	Metropolitan Surety Company.
Peterson, C. J.	110 First Street, North	83.34	Eugene and Will Fogg.
Fedders, W. J.	6 First Street, South	100.00	Metropolitan Surety Company.
Miller & Nichols	8 First Street, South	100.00	Metropolitan Surety Company.
McQueen, E. W.	13 First Street, South	100.00	Metropolitan Surety Company.
Gorlien, Jno.	11 First Street, South	100.00	Metropolitan Surety Company.
Gorlien, Jno.	14 First Street, South	100.00	Metropolitan Surety Company.
Lundgaard, C.	9 First Street, South	100.00	Metropolitan Surety Company.
Adams & Co.	12 First Street, South	100.00	Metropolitan Surety Company.
Adams & Co.	250 Washington Avenue, South	100.00	Metropolitan Surety Company.
Ruffington & Larson	208 Washington Avenue, South	100.00	Metropolitan Surety Company.
Maurer, Fred	106 First Avenue, South	100.00	Metropolitan Surety Company.
Nordstrom, A. T.	106 First Avenue, South	100.00	Metropolitan Surety Company.
Glader, N. O.	109 First Avenue, South	100.00	Metropolitan Surety Company.
McC. & McEachran	222 First Avenue, South	100.00	Metropolitan Surety Company.
McC. & McEachran	22 Second Street, South	100.00	Metropolitan Surety Company.
Birch, H. S.	223 Third Avenue, South	100.00	Metropolitan Surety Company.
Soo Employment Co.	238 Third Avenue, South	100.00	Metropolitan Surety Company.
Anderson, A. H. & Co.	8 Second Street, South	100.00	Metropolitan Surety Company.
Barron, M. H.	128 Second Street, South	100.00	Metropolitan Surety Company.
Barron, M. H.	10 First Street, South	100.00	Metropolitan Surety Company.
Maurin & Lindblom	17 First Street, North	83.34	Metropolitan Surety Company.

City of St. Paul.

Graben, O. H.....	Cor. Jackson Street and Sixth St..	\$100.00	National Surety Company of New York.
Horsnell, W. T.....	122 East Third Street.....	100.00	Illinois Surety Company of Chicago.
Jones, E.....	27 East Seventh Street.....	100.00	Robt. Nordman and J. McGuire.
Anderson, A. H.....	137 East Third Street.....	100.00	National Surety Company of New York.
Fedders, W. J.....	183 East Third Street.....	100.00	National Surety Company of New York.
Klanning, C.....	74 Cedar Street.....	100.00	National Surety Company of New York.
Lackness, John.....	308 Phoenix Building.....	100.00	National Surety Company of New York.
Pierce, Lowell M.....	12 East Seventh Street.....	100.00	National Surety Company of Baltimore.
Douglas, A. G.....	311 Wabasha Street.....	100.00	American Bonding Company of Baltimore.
Pierce, L. M.....	12 East Seventh Street.....	100.00	U. S. Fidelity & Guaranty Co. of Baltimore.
Schaefer, J.....	2 East Tenth Street.....	100.00	Phil and Robt. Potts.
Loftus, E.....	343 Wabasha Street.....	100.00	

City of Duluth.

Esse, S. F.....	Place of business not given.	Sureties on Bond of \$1,000.	
Foley, James.....	Place of business not given.	\$100.00	Bankers Surety Company.
Sunby, Nels.....	Place of business not given.	100.00	Bankers Surety Company.
Empire Employment Co.....	Place of business not given.	100.00	Aug. Johnson and Chas. Ericson.
Stack Employment Co.....	Place of business not given.	100.00	Wm. Quinn and A. Bootherton.
Duluth Employment Co. (three offices).....	Place of business not given.	300.00	P. Hammel and E. M. Barrett.
Olson, I. I.....	Place of business not given.	100.00	National Surety Company.
Richards, G. S. (two offices).....	Place of business not given.	200.00	National Surety Company.
Olund, E. O.....	Place of business not given.	100.00	National Surety Company.
Standard Employment Co.....	Place of business not given.	100.00	National Surety Company.
Carlson, E.....	Place of business not given.	100.00	U. S. Fidelity & Guaranty Co.
Downie, E.....	Place of business not given.	100.00	U. S. Fidelity & Guaranty Co.
Meagnet, Peter E.....	Place of business not given.	100.00	U. S. Fidelity & Guaranty Co.
Burnett, C. M.....	Place of business not given.	100.00	E. M. Ferguson and H. B. Knudson.
Costello, James.....	Place of business not given.	100.00	Dan and Frank Horgan.

STATE FREE EMPLOYMENT BUREAU

FREE PUBLIC EMPLOYMENT BUREAU.

The Free Public Employment Bureau at Minneapolis is a creation by act of the legislature of 1905. It is the only kind of its nature in the state and was called into existence more in the nature of a test for necessity and expediency.

The authorization for the bureau is found in Chapt. 316 Genl. Laws of 1905, reading as follows:

LAWS 1905, CHAPTER 316

An act to establish a free public employment bureau in cities of fifty thousand (50,000) inhabitants, or over, and to provide for the conduct and maintenance of the same.

Be it enacted by the Legislature of the State of Minnesota:

Section 1. The commissioner of labor of the State of Minnesota is hereby directed to organize and establish in one city in this state containing fifty thousand (50,000) inhabitants, or more, to be chosen by him, a free public employment bureau for the purpose of receiving applications from persons seeking employment, and applications from employers desiring to employ labor. There shall be no fee or compensation charged or received, directly or indirectly, from persons applying for employment, or from those desiring to employ labor through said bureau. There shall be appointed by the commissioner of labor, for such bureau, one superintendent, who may be removed by the commissioner for good and sufficient cause, such appointment to be made immediately after this act becomes a law, and thereafter at the commencement of the biennial session of the legislature; the salary of such superintendent shall not exceed (\$1,200) twelve hundred dollars per annum.

Sec. 2. The superintendent of such bureau shall receive and record in a book to be kept for that purpose, the names of all persons applying for employment, as well as the name and address of all persons, firms or corporations applying to employ labor, designating opposite the name and address of each applicant the character of employment desired or offered. Such superintendent shall also perform such other duties in the collection of labor statistics, and in the keeping of books and accounts of his bureau as the commissioner may direct or require, and shall report monthly all business transacted by his bureau, to the office of the commissioner of labor, at the state capitol.

Sec. 3. Every application for employment by employer or employee which is made to the free employment bureau shall be void after thirty days' from its receipt, unless the same be renewed by the applicant. When an applicant for labor has secured the same, he shall within ten days thereafter, notify the superintendent of the bureau upon a notification card provided for that purpose. If any such applicant neglects to notify such superintendent, he or they shall be debarred from all future rights and privileges of such employment bureau at the discretion of the commissioner of labor, to whom the superintendent shall report such neglect.

Sec. 4. There is hereby annually appropriated out of any money in the state treasury not otherwise appropriated, the sum of seventeen hundred fifty (\$1,750) dollars, or so much thereof as may be necessary, to carry out the provisions of this act.

Sec. 5. All acts or parts of acts that are in conflict with the provisions of this act are hereby repealed.

Sec. 6. This act shall take effect and be in force from and after its passage.

Approved April 19, 1905.

The fact that the city of Minneapolis is the industrial center of the state and has the largest number of factories and wage earners was decisive for the establishing of the bureau in that city, more even so, since the municipal authorities offered a location and the Commercial Club of Minneapolis office equipments, gratuitously.

The former deputy commissioner of labor, Mr. Louis Levy, was appointed superintendent and the bureau was opened for business on June 1st, 1905.

From the following exhibits the nature and extent of the work, of the bureau will be observable, as well as the wisdom of the legislature in authorizing its creation.

It became however very soon apparant that the annual appropriation for operation of the bureau was by far insufficient and some extent limited its usefulness.

It must be stated without hesitancy that still better results could have been obtained, had the bureau been allowed such funds which would have made possible additional help for outside work, and free communication between outside employers in search of help and the bureau.

Applications for help and for work of females were so numerous that soon after the opening of the bureau it became necessary to employ additional help and accordingly a woman assistant was put in charge of this part of the work of the bureau.

The following tables cover the time from June, 1905, to August, 1906, table 1 showing in detail the number of applications for help received during each month, the number of applications for employment and number of places filled.

Tables 2 and 3 are summaries of table 1, and table 4 is an arbitrary classification of the positions offered and filled. It will be seen from this classification that 10 per cent of the positions offered and 9 per cent of the positions secured for applicants, came under the classification of skilled labor, being either professional or mechanical positions.

TABLE I.—Monthly Report on Positions Offered and Filled and Applications for Employment filed and filled for the Period from June, 1905, to August, 1906.
June, 1905.

Males						Females					
Character of Positions	Application for Employment			Application for Help		Character of Positions	Applications for Employment			Applications for Help	
	Number Filled	No. of Positions Secured	Number Unfilled	Number Filled	Number Unfilled		Number Filled	No. of Positions Secured	Number Unfilled	Number Filled	Number Unfilled
Teamsters.....	33	33	..	68	..	Laundry	4	4	..	4	..
Cooks	11	11	..	11	..	Nurse	8	8	..	8	..
Iron workers.....	2	2	..	2	..	Housekeepers	7	7	..	7	..
Farm work.....	47	47	..	47	..	Day work	10	10	..	10	..
Messenger boys.....	7	7	..	7	..	Housework	26	26	..	26	..
Harness makers.....	2	2	..	2	..	Factory	6	6	..	6	..
Bookkeeper	10	10	..	10	..	Cooks	11	11	..	11	..
Laborers	175	175	..	175	..	Dishwashers	1	1	..	1	..
Dairymen	1	1	..	1	..	Clerks	2	2	..	2	..
Saw mill men.....	28	28	..	28	..	Farm work	4	4	..	4	..
Carpenters	29	29	..	29	..	Waitresses	5	5	..	5	..
Metal workers	1	1	..	1	..	Chamber work	2	2	..	2	..
Watchmen	9	9	..	9	..	Berry pickers	5	5	..	5	..
Porters	10	10	..	10	..	Stenographers	3	3	..	3	..
Nurses	3	3	..	3	..	Sewing girls	2	2	..	2	..
Stone masons	3	3	..	3	..						
Clerks	57	57	..	57	..						
Stationary eng'r.....	13	13	..	13	..						
Stenographers	2	2	..	2	..						
Painters	12	12	..	12	..						
Timekeeper	2	2	..	2	..						
Machinist	17	17	..	17	..						
Boilermakers	3	3	..	3	..						
Firemen	2	2	..	2	..						
Tinner	1	1	..	1	..						
Coachman	1	1	..	1	..						
Electrician	1	1	..	1	..						
Janitors	10	10	..	10	..						
Inside work	17	17	..	17	..						
Factory	20	20	..	20	..						
Steam fitters	3	3	..	3	..						

July, 1905.

Laborers	175	126	49	126	..	Laundry girls	3	3	..	..	..
Farm hands	70	70	..	70	..	Day workers	6	6	..	..	..
Clerks	27	27	..	27	..	Nurse girls	8	3	5	3	..
Bookkeepers	20	1	..	1	..	Housekeepers	6	3	3	3	..
Light inside labor	10	10	..	10	..	Domestics	38	35	3	35	..
Carpenters	26	9	17	9	..	Factory girls	9	9	..	9	..
Coopers	2	2	..	2	..	Cooks	12	7	5	7	..
Tinners	1	1	..	1	..	Clerks	2	1	1	1	..
Printers	2	..	..	..	..	Waitresses	6	6	..	6	..
Teamsters	22	4	18	4	..	Stenographers	7	1	6	1	..
Cement workers	3	2	1	2	..	Dishwashers	3	3	..	3	..
Janitors and firemen	18	18	..	18	..	Farm work	4	4	..	4	..
R. R. brakemen.....	1	..	..	..	..	Berry pickers	15	15	..	110	96
Painters	3	3	..	3	..						
Light work	4	4	..	4	..						
Cooks	4	3	1	3	..						
Cash boys	1	1	..	1	..						
Saw mill hands.....	23	23	..	23	..						
Harvest hands	41	41	..	41	..						
Miners	41	41	..	41	..						
Messengers	1	1	..	1	..						
Bridge workers	3	1	2	1	..						

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August 1905.

Males						Females					
Character of Positions	Application for Employment			Application for Help		Character of Positions	Applications for Employment			Applications for Help	
	Number Filled	No. of Positions Secured	Number Unfilled	Number Filled	Number Unfilled		Number Filled	No. of Positions Secured	Number Unfilled	Number Filled	Number Unfilled
Laborers	446	446	..	446	..	Day workers	60	60	..	123	..
Harvest hands	225	225	..	784	559	Housework	43	43	..	175	132
Barnmen	6	6	..	6	..	Housekeepers	10	10	..	10	..
Teamsters	14	14	..	14	..	Dishwashers	5	5	..	5	..
Blacksmiths	1	1	..	1	..	Cooks	16	16	..	16	..
Porters	5	5	..	5	..	Laundry girls	9	9	..	9	..
Dairymen	8	8	..	8	..	Chambermaids	3	3	..	3	..
Bell boys	1	1	..	1	..	Nurse	5	5	..	5	..
Carpenters	9	9	..	9	..	Dining room girls	1	1	..	1	..
Cabinet makers	4	4	..	4	..	Kitchen work	2	2	..	2	..
Gas fitters	3	3	..	3	..	Stenographer	10	10	..	10	..
Plumbers	2	2	..	2	..	Cashier	2	2	..	2	..
Watchmen	1	1	..	1	..	Janitress .....	..	2	..	2	..
Dishwashers	2	2	..	2	..	Farm work	4	4	..	4	..
Machinists	2	2	..	2	..	Clerks	6	6	..	6	..
Rip sawyers	1	1	..	1	..						
Factory help	1	1	..	1	..						
Cooks	3	3	..	3	..						
Plasterers	3	3	..	3	..						
Woodworkers	1	1	..	1	..						
Cement workers	2	2	..	2	..						
Painters	6	6	..	6	..						
Janitors	1	1	..	1	..						
Soda clerks	1	1	..	1	..						
Electricians	1	1	..	1	..						
Elevator operator	1	1	..	1	..						
Delivery boys	1	1	..	1	..						
Millers	1	1	..	1	..						

September, 1905.

Laborers	185	185	..	185	..	Domestics	57	54	3	130	76
Harvest hands	11	11	..	11	..	Day work	79	59	20	59	..
Barnmen	10	10	..	10	..	Dining room	2	2	..	6	4
Carpenters	5	5	..	5	..	Housekeepers	16	10	6	16	..
Janitors	3	3	..	3	..	Factory work	4	4	..	16	12
Factory work	16	16	..	16	..	Canvassers	1	1	..	6	5
Engine wipers	2	2	..	2	..	Cooks	12	7	5	10	3
Mason tenders	2	2	..	2	..	Dish washers	4	4	..	13	9
Grubber	1	1	..	1	..	Nurses	5	3	2	3	..
Teamsters	11	11	..	11	..	Laundry	6	6	..	6	..
Dairy hands	6	6	..	6	..	Chamber work	1	1	..	1	..
Potato diggers	2	2	..	2	..						
Housework—care-taker	1	1	..	1	..						
Valet	1	1	..	1	..						
Lunch man	1	1	..	1	..						
Painter	1	1	..	1	..						
Truckers—freight	5	5	..	5	..						
Messengers	1	1	..	1	..						
Tinners	1	1	..	1	..						
Clerical	1	1	..	1	..						
Draughtsman	1	1	..	1	..						
Yardman—hotel	2	2	..	2	..						
Bus boy—dish carrier	1	1	..	1	..						
Cooks	1	1	..	1	..						

October, 1905.

Males						Females					
Character of Positions	Application for Employment			Applica-tion for Help		Character of Positions	Applications for Employment			Applica-tions for Help	
	Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled		Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled
Laborers	367	367	..	..	..	Day work	182	182	..	182	..
Painters	1	1	..	..	..	Housework	75	72	3	111	39
Carpenters	9	9	..	..	..	Housekeepers	12	7	5	12	5
Mason tenders	3	3	..	..	..	Dishwashers	3	3	..	13	10
Teamsters	5	5	..	..	..	Factory work	55	55	..	..	..
Dairymen	4	4	..	..	..	Nurse	5	5	..	5	1
Coachmen	3	3	..	..	..	Cooks	9	6	3	4	3
Truckers—freight	4	4	..	..	..	Laundry	1	1	..	2	1
Warehouse men	2	2	..	..	..	Bookkeeper	1	1	..	1	..
Janitors	5	5	..	..	..	Stenographer	8	2	6	8	6
Office boys	3	3	..	..	..	Dining room	3	3	..	10	7
Nurse	1	1	..	..	..	Sewing girls	2	..	2	..	..
Plumbers helpers	1	1	..	..	..	Second girls	1	..	1	..	..
Furnace man—	..	..	..	..	..	Man and wife....	2	..	2	..	..
caretaker	1	1	..	..	..			
Barnmen	2	2	..	..	..			
Farm hands	5	5	..	..	..			
Cooks	2	2	..	..	..			
Saw mill hands	1	1	..	..	..			
Cabinet maker	1	1	..	..	..			
Coopers	2	2	..	..	..			
Engineers	4	4	..	..	..			
Pressman—news-	..	..	..	..	..	
paper	1	1	..	..	..			
Tinner	1	1	..	..	..			
Factory work	1	1	..	..	..			
Bell boy	1	1	..	..	..			
Steam fitters	..	..	..	..	..	
helper	4	4	..	..	..			

November, 1905.

Laborers	429	429	..	..	..	Housework	96	92	4	136	44
Carpenters	29	29	..	..	..	Housekeepers	10	7	3	15	8
Dairymen	4	4	..	..	..	Day work	341	296	45	296	..
Electricians	3	3	..	..	..	Laundry	4	4	..	5	1
Machine helpers	2	2	..	..	..	Factory	10	9	1	9	..
Salesmen	2	2	..	..	..	Cooks	11	8	3	12	4
Mason tenders	2	2	..	..	..	Dining room work	6	4	2	7	3
Plumbers helpers	2	2	..	..	..	Kitchen girls	8	8	..	11	3
Farm work	9	9	..	..	..	Clerk—store	1	1	..	1	..
Barnmen	1	1	..	..	..	Janitress	1	1	..	1	..
Stage hands	2	2	..	..	..	Chamberwork	2	2	..	3	1
Trucking—freight	3	3	..	..	..	Stenographer	2	..	2	..	..
Teamsters	5	5	..	..	..	Nurse girls	1	..	1	..	..
Messengers	2	2	..	..	..	Man and wife....	1	1	..	2	1
Bill poster	1	1	..	..	..	Sewing girls	3	..	3	..	..
Window cleaner	2	2	..	..	..			
Janitors	2	2	..	..	..			
Porters	1	1	..	..	..			
Messenger boys	1	1	..	..	..			
Nurse	1	1	..	..	..			
Painters	1	1	..	..	..			
Boiler-maker helper	1	1	..	..	..			
Printers appren-	..	..	..	..	..	
tice	1	1	..	..	..			
Woodworkers	1	1	..	..	..			
Cement workers	1	1	..	..	..			

December, 1905.

Males						Females					
Character of Positions	Application for Employment			Applica-tion for Help		Character of Positions	Applications for Employment			Applica-tions for Help	
	Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled		Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled
Laborers	137	137	..	..	..	Housework	79	79	..	134	55
Carpenters	12	12	..	..	..	Housekeepers	17	14	3	21	..
Dairymen	7	7	..	..	..	Day work	178	159	19	159	..
Electricians	1	1	..	..	..	Laundry	1	1	..	3	2
Farm work	17	17	..	..	..	Factory	8	7	1	..	..
Barnmen	1	1	..	..	..	Cooks	11	6	5	16	10
Trucking—freight	4	4	..	..	..	Dining room work	8	8	..	12	4
Teamsters	14	14	..	..	..	Kitchen girls	8	6	2	6	..
Messengers .....	..	..	..	..	..	Janitress	1	1	..	1	..
Janitors	2	2	..	..	..	Chamberwork	7	6	1	6	..
Painters	3	3	..	..	..	Stenographers	4	1	3	1	..
Machinists	2	2	..	..	..	Nurse girls	5	4	1	4	..
Woodmen	37	37	..	..	..	Sewing girls	1	1	..	1	..
Fireman	1	1	..	..	..	Sales lady	3	3	..	3	..
Track work	1	1	..	..	..	Waitresses	3	3	..	3	..
Machinists	16	16	..	..	..	Dishwashers	2	2	..	4	..
Plumbers laborers	2	2	..	..	..	Restaurant work	1	1	..	1	..
Mason tenders	6	6	..	..	..	Man and wife	4	1	3	1	..
Handy men	2	2	..	..	..	Bookkeeper	1	..	1	..	..
Moulders—iron	1	1	..	..	..	Matron	1	..	1	..	..
Shovelers—coal	6	6	..	..	..	Trained nurse	1	..	1	..	..
Paper hangers	1	1	..	..	..			
Bricklayers	4	4	..	..	..			
Factory work	5	5	..	..	..			
Porters	2	2	..	..	..			
Tinners	2	2	..	..	..			
Furnace care-tender	1	1	..	..	..			
Butter makers	1	1	..	..	..			
Window cleaners	2	2	..	..	..			
Boilermakers	2	2	..	..	..			
Carpenters	4	4	..	..	..			
Coachman	1	1	..	..	..			
Delivery men	3	3	..	..	..			
Blacksmiths	2	2	..	..	..			

January, 1906.

Carpenters	5	5	..	5	..	Day work	203	203	..	203	..
Woodmen	170	140	30	170	30	Factory	13	13	..	13	..
Laborers	108	108	..	108	..	Housework	96	91	5	120	29
Teamsters	18	18	..	18	..	Cooks	8	7	1	13	6
Farm work	25	25	..	25	..	Dishwashers	4	4	..	4	..
Bell boy	1	1	..	1	..	Housekeepers	9	6	3	12	6
Apprentice boy	1	1	..	1	..	Dining room	4	4	..	5	1
Leather worker	2	2	..	2	..	Farm work—man	4	4	..	4	..
Plaster tender	2	2	..	2	..	and wife	4	4	..	4	..
Dairymen	4	4	..	4	..	Clerks	1	1	..	1	..
Carpet cleaners	1	1	..	1	..	Chamber work	3	2	1	2	..
Handy men	4	4	..	4	..	Nurse	4	4	..	6	2
Messengers	1	1	..	1	..	Nurse—trained	1	..	1	..	..
Shovelers—coal	2	2	..	2	..	Laundry	7	6	1	6	..
Lathers	4	4	..	4	..	Stenographet	1	1	..	1	..
Porters	1	1	..	1	..	Machine operator	1	1	..	1	..
Elevator operator	2	1	1	2	1	Matron	1	..	1	..	..
Clerks	2	1	1	2	1	Kitchen work .....	..	..	..	2	2
Bench work	1	1	..	1	..						
Quarry men	1	1	..	1	..						

February, 1906.

Males						Females					
Character of Positions	Application for Employment			Applica- tion for Help		Character of Positions	Applications for Employment			Applica- tions for Help	
	Number Filed	No. of Posi- tions Secured	Number Unfilled	Number Filed	Number Unfilled		Number Filed	No. of Posi- tions Secured	Number Unfilled	Number Filed	Number Unfilled
Mason tender	3	3	..	..	..	Housework	70	68	2	97	29
Laborers	106	106	..	..	..	Day work	144	144	..	144	..
Barnmen	6	6	..	..	..	Man and wife for farm	17	15	2	15	..
Teamsters	22	22	..	..	..	Dishwasher	3	3	..	4	1
Cornice helpers	3	3	..	..	..	Cooks	12	12	..	13	1
Farm work	21	21	..	..	..	Chamber work	7	4	3	7	3
Woodmen	33	33	..	..	..	Factory work	4	4	..	4	..
Coachmen	1	1	..	..	..	Dining room work	4	4	..	4	..
Blacksmith helpers	3	3	..	..	..	Housekeepers	5	3	2	10	7
Truckers—freight	12	12	..	..	..	Nurse	5	1	4	1	..
Paper hangers	1	1	..	..	..	Stenographer	1	1	..	1	..
Machinists	4	4	..	..	..	Bookkeeper	1	1	..	1	..
Porters	6	6	..	..	..	Laundry work	2	2	..	2	..
Watchman	1	1	..	..	..	Sewing girl	2	1	1	1	..
Fireman	2	2	..	..	..	Kitchen girls	..	..	..	1	1
Dairy work	2	2	..	..	..			
Steward—hotel	1	1	..	..	..			
Sawyer—mill	3	3	..	..	..			
Cutters—tailor	1	1	..	..	..			
Blacksmith	1	1	..	..	..			
Gardeners—hot- house	2	2	..	..	..			
Carpenters	7	7	..	..	..			
Bookkeepers	1	1	..	..	..			
Window washers	3	3	..	..	..			
Bench workers— machinists	5	5	..	..	..			
Machinist helpers	1	1	..	..	..			
Delivery boy	1	1	..	..	..			
Woodworker	1	1	..	..	..			
Clerk	1	1	..	..	..			

March, 1906.

Laborers	133	133	..	133	..	Cooks	4	4	..	9	5
Farm hands	34	28	6	34	6	Day workers	195	195	..	195	..
Painters	1	1	..	1	..	Kitchen girls	2	2	..	9	7
Machinists	7	7	..	7	..	Dining room	4	4	..	4	..
Bench workers	4	4	..	4	..	Factory hands	1	1	..	2	1
Woodworkers	3	3	..	3	..	Domestics	55	55	..	125	70
Hotel clerks	1	1	..	1	..	Housekeepers	3	3	..	4	1
Shipping clerks	1	1	..	1	..	Office help	1	1	..	1	..
Cash wagon drivers	1	1	..	1	..	Chamber work	7	7	..	8	1
Carpenters	1	1	..	1	..	Dishwashers	10	10	..	10	..
Coachmen	3	3	..	3	..	Nurses	2	2	..	2	..
Stationary firemen	4	4	..	4	..	Laundry workers	5	5	..	9	4
Bricklayers	2	2	..	2	..	Farm—man and wife	6	6	..	6	..
Shinglers	2	2	..	2	..	Waitresses	1	1	..	2	1
Laundrymen	1	1	..	1	..	Scrub woman	2	2	..	2	..
Porters	7	7	..	7	..	Seamstresses	2	2	..	2	..
Yardmen—hotel	2	2	..	2	..						
Panwashers	3	3	..	3	..						
Janitors	3	3	..	3	..						
Elevator boys	2	2	..	2	..						
Errand boys	2	2	..	2	..						
Cattle drivers	2	2	..	2	..						
Butchers	2	2	..	2	..						
Blacksmiths	2	2	..	2	..						
Teamsters	5	5	..	5	..						
Furniture packers	1	1	..	1	..						
Lath pullers	1	1	..	1	..						
Barnmen	2	2	..	2	..						

April, 1906.

Males						Females					
Character of Positions	Application for Employment			Applica-tion for Help		Character of Positions	Applications for Employment			Applica-tions for Help	
	Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled		Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled
Carpenters	36	36	..	36	..	Housework—do-	24	24	..	24	..
Gen. farm hands..	43	43	..	47	4	mestic	402	402	..	402	..
Dairy hands	8	8	..	9	1	Day work	3	3	..	3	..
Gardeners	9	9	..	9	..	Kitchen work ..	3	3	..	3	..
Men and wives on	3	3	..	3	..	Chambermaids ..	1	1	..	1	..
farms	260	260	..	260	..	Pastry cook	1	1	..	1	..
Common laborers	119	119	..	119	..	Cook	3	3	..	3	..
Handy men	14	14	..	14	..	Waitresses	1	1	..	1	..
Teamsters	4	4	..	4	..	Dishwashers	1	1	..	1	..
Barnmen	28	28	..	28	..	Scrubwoman	1	1	..	1	..
Factory hands	6	6	..	6	..	Janitress	2	2	..	2	..
Advertising men...	4	4	..	4	..						
Stone masons	2	2	..	2	..						
Mason tenders	11	11	..	11	..						
Machinist and	1	1	..	1	..						
bench workers ..	1	1	..	1	..						
Tinners	1	1	..	20	19						
Freight checkers..	2	2	..	4	2						
Painters	2	2	..	2	..						
Shinglers	3	3	..	3	..						
Lath sawyers	1	1	..	1	..						
Paper hangers	1	1	..	1	..						
Shoe salesman	4	4	..	4	..						
Engine wipers	4	4	..	4	..						
Nursery men	2	2	..	2	..						
Fence setters	6	6	..	6	..						
Elevator operators	3	3	..	3	..						
Cooks and restau-	4	4	..	4	..						
rant help	1	1	..	1	..						
Coachman and	20	20	..	24	4						
chore men	2	2	..	2	..						
Laundry man	3	3	..	3	..						
Lumber yard man	4	4	..	4	..						
Stationary firemen	1	1	..	1	..						
Boys	1	1	..	1	..						
Janitors and por-	1	1	..	1	..						
ter	1	1	..	1	..						
Coopers											

May, 1906.

Laborers	494	494	..	..	Day work	570	570	..	570	..
Teamsters	15	15	..	..	Laundry	6	6	..	6	..
Mason tender	1	1	..	..	Chamberwork	5	5	..	5	..
Factory help	104	104	..	..	Kitchen work	12	12	..	12	..
Watchman	1	1	..	..	Housework	21	21	..	21	..
Farm work	43	43	..	..	Sewing	4	4	..	4	..
Janitors	5	5	..	..	Housekeeper	1	1	..	1	..
Bricklayers	1	1	..	..	Nurse	1	1	..	1	..
Dairy hands	5	5	..	..	Waitresses	6	6	..	6	..
Bench work	2	2	..	..	Janitresses	2	2	..	2	..
Porters	8	8	..	..	Cooks	2	2	..	2	..
Machinists	4	4	..	..				
Gardeners	1	1	..	..				
Carpenters	18	18	..	..				
Truckers—freight	4	4	..	..				
Window cleaners ..	4	4	..	..				
Bell boys	1	1	..	..				
Painters	2	2	..	..				
Barnmen	2	2	..	..				
Stone masons	1	1	..	..				
Bottle washers	1	1	..	..				
Blacksmiths	1	1	..	..				
Coachmen	3	3	..	..				
Hospital attendant	1	1	..	..				
Cooks	2	2	..	..				

June, 1906.

Males						Females					
Character of Positions	Application for Employment			Applica-tion for Help		Character of Positions	Applications for Employment			Applica-tions for Help	
	Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled		Number Filed	No. of Posi-tions Secured	Number Unfilled	Number Filed	Number Unfilled
Laborers	520	520	..	..	..	Day work	386	386	..	386	..
Mason tenders	4	4	..	..	..	Housework	21	21	..	21	..
Porter	8	8	..	..	..	Cooks	6	6	..	6	..
Barnmen	1	1	..	..	..	Kitchen work	9	9	..	9	..
Teamsters	4	4	..	..	..	Nurse	23	23	..	23	..
Farm work	21	21	..	..	..	Housekeeper	3	3	..	3	..
Carpenters	1	1	..	..	..	Chamberwork	1	1	..	1	..
Gardeners'	3	3	..	..	..	Dining room	1	1	..	1	..
Baker	1	1	..	..	..			
Factory help	199	199	..	..	..			
Painters	8	8	..	..	..			
Dairy hands	4	4	..	..	..			
Coachmen	2	2	..	..	..			
Bill posters	1	1	..	..	..			
Firemen	3	3	..	..	..			
Dishwashers	1	1	..	..	..			
Engine wipers	1	1	..	..	..			
Laundryman	1	1	..	..	..			
Janitor	1	1	..	..	..			
Foundry helpers ..	4	4	..	..	..			
Errand boy	1	1	..	..	..			
Bottle washer	1	1	..	..	..			

July, 1906.

Laborers	411	411	..	..	..	Day work	468	468	..	468	..
Gardener	6	6	..	..	..	Cooks	5	5	..	5	..
Engine wiper	5	5	..	..	..	Housekeepers	4	4	..	4	..
Farm work	80	80	..	..	..	Dining room	2	2	..	2	..
Laundryman	2	2	..	..	..	Sewing	1	1	..	1	..
Mason tenders	19	19	..	..	..	Kitchen work	9	9	..	9	..
Teamsters	15	15	..	..	..	Chamberwork	9	9	..	9	..
Errand boys	1	1	..	..	..	Housework	22	22	..	22	..
Dairy farm	9	9	..	..	..	Dishwasher	4	4	..	4	..
Janitors	4	4	..	..	..	Farm work	8	8	..	8	..
Carpenters	6	6	..	..	..	Day work	1	1	..	1	..
Barnmen	6	6	..	..	..	Nurse	4	4	..	4	..
Gas fitters	1	1	..	..	..	Waitress	1	1	..	1	..
Fireman	1	1	..	..	..	Janitress	1	1	..	1	..
Plumbers' helper ..	3	3	..	..	..			
Porters	3	3	..	..	..			
Dish washers	1	1	..	..	..			
Window washers ..	3	3	..	..	..			
Nurse	1	1	..	..	..			
Bottle washers	1	1	..	..	..			
Machinist helpers ..	1	1	..	..	..			

TABLE II.—Showing Number of Applications for Help Received and Filled and Number of Applications for Employment Received and Filled During the Period from June, 1905, to August, 1906.

Males						Females					
Month	Applications for Employment			Applications for Help		Month	Applications for Employment			Applications for Help	
	Number Filled	No. of Positions Secured	Number Unfilled	Number Filled	Number Unfilled		Number Filled	No. of Positions Secured	Number Unfilled	Number Filled	Number Unfilled
June, 1905	532	532	..	532	..	June	96	96	..	96	..
July	498	326	172	326	..	July	219	96	123	182	86
August	752	752	..	1,311	559	August	183	183	..	377	184
September	271	271	..	271	..	September	187	151	36	262	111
October	434	434	..	434	..	October	307	285	22	362	77
November	508	508	..	508	..	November	497	433	64	498	65
December	302	302	..	302	..	December	344	308	41	383	80
January, 1906	355	323	32	355	32	January	360	347	13	393	46
February	254	254	..	254	..	February	277	263	14	305	42
March	235	229	6	235	6	March	300	300	..	390	90
April	612	612	..	642	30	April	443	443	..	443	..
May	724	724	..	724	..	May	630	630	..	630	..
June	790	790	..	790	..	June	429	429	..	429	..
July	579	579	..	579	..	July	539	539	..	539	..
Total	6,846	6,636	210	7,263	627	Total	4,811	4,498	313	5,289	791

TABLE III.—Showing Nature of the Positions Offered and Employment Secured During the Period from June, 1905, to August, 1906.

Males						Females					
Character of Positions	Application for Employment			Applica- tion for Help		Character of Positions	Applications for Employment			Applica- tions for Help	
	Number Filled	No. of Posi- tions Secured	Number Unfilled	Number Filled	Number Unfilled		Number Filled	No. of Posi- tions Secured	Number Unfilled	Number Filled	Number Unfilled
Laborers	3,947	3,898	49	3,898	509	Laundry girls	48	47	1	55	8
Harvest hands	277	277	..	784	509	Nurses	53	40	13	43	3
Barnmen	41	41	..	41	..	Housekeepers	103	78	25	112	34
Teamsters	197	179	18	197	18	Day workers	3,344	3,161	183	3,210	50
Blacksmiths	7	7	..	9	2	Domestics	723	703	20	1,177	474
Blacksmith helpers	3	3	..	3	..	Factory girls	60	58	2	71	13
Steam fitters	3	3	..	3	..	Cooks	120	98	22	130	32
Porters	51	51	..	51	..	Dishwashers	40	40	..	62	22
Furniture packers	1	1	..	1	..	Clerks	15	14	1	14	..
Dairy men	62	62	..	63	1	Farm work	20	20	..	20	..
Cornice makers' helpers	3	3	..	3	..	Waitresses	61	59	2	88	29
Bell boys	4	4	..	4	..	Chambermaids	50	45	5	50	5
Lath pullers	1	1	..	1	..	Berry pickers	20	20	..	115	95
Carpenters	197	180	17	180	..	Stenographers	36	19	17	25	6
Cabinet makers	5	5	..	5	..	Bookkeeper	3	2	1	2	..
Apprentice boy	1	1	..	1	..	Sewing girls	18	12	6	12	..
Metal workers	1	1	..	1	..	Kitchen girls	44	42	2	55	13
Bottle washers	3	3	..	3	..	Cashiers	2	2	..	2	..
Plumbers	2	2	..	2	..	Janitresses	9	9	..	9	..
Watchman	12	12	..	12	..	Canvassers	1	1	..	6	5
Dishwashers	4	4	..	4	..	Second girls	1	..	1	1	..
Machinists	63	63	..	65	..	Man and wife	34	26	8	28	2
Rip sawyers	4	4	..	4	..	Matron	2	..	2	..	..
Tailors' cutters	4	4	..	4	..	Trained nurse	2	..	2	..	..
Gas fitters	4	4	..	4	..	Office girls	1	1	..	1	..
Factory hands	374	374	..	374	..	Pastry cook	1	1	..	1	..
Carpet cleaners	1	1	..	1	..						
Cooks	26	25	1	25	..						
Advertising men	6	6	..	6	..						
Plasterers	3	3	..	3	..						
Plasterers' helpers	2	2	..	2	..						
Woodworkers	6	6	..	6	..						
						Total	4,811	4,498	313	5,289	791

TABLE III.—Continued.

Males						Females					
Character of Positions	Application for Employment			Applica- tion for Help		Character of Positions	Applications for Employment			Applica- tions for Help	
	Number Filled	No. of Posi- tions Secured	Number Unfilled	Number Filled	Number Unfilled		Number Filled	No. of Posi- tions Secured	Number Unfilled	Number Filled	Number Unfilled
Stone masons	8	8	..	8	..	Iron workers	2	2	..	2	..
Cement workers ..	6	5	1	5	..	Plumbers' helpers ..	6	6	..	6	..
Painters	40	40	..	42	2	Plumbers' laborers ..	2	2	..	2	..
Man and wife—						Engineers	17	17	..	17	..
farm	3	3	..	3	..	Stenographers	2	2	..	2	..
Timekeepers	2	2	..	2	..	Newspaper press- man ..	1	1	..	1	..
Janitors	40	40	..	40	..	Steam fitters' helper ..	4	4	..	4	..
Soda clerk	1	1	..	1	..	Machinist helpers ..	4	4	..	4	..
Electricians	6	6	..	6	..	Salesmen	2	2	..	2	..
Elevator operators ..	11	10	1	10	..	Stage hands	2	2	..	2	..
Delivery boys	17	17	..	17	..	Boilermakers' helper ..	1	1	..	1	..
Flour miller	1	1	..	1	..	Shoe salesman	1	1	..	1	..
Quarry men	1	1	..	1	..	Bill posters	2	2	..	2	..
Foundry helper	4	4	..	4	..	Window cleaners ..	14	14	..	14	..
Farm hands	409	409	..	513	104	Printers' appren- tice ..	1	1	..	1	..
Clerks	78	60	18	60	..	Woodsmen	240	240	..	270	30
Bookkeepers	31	12	19	12	..	Handy men	125	125	..	125	..
Harness makers	2	2	..	2	..	Iron moulders	1	1	..	1	..
Light inside labor ..	27	17	10	17	..	Coal shovelers	8	8	..	8	..
Bench workers	12	12	..	12	..	Paper hangers	3	3	..	3	..
Coopers	5	3	2	3	..	Bricklayers	7	7	..	7	..
Tinners	7	6	1	6	..	Fence setters	2	2	..	2	..
Miners	41	41	..	41	..	Lumber pilers	20	20	..	24	4
Printers	2	..	2	..	..	Buttermaker	1	1	..	1	..
Fireman	33	15	18	15	..	Boilermakers	5	5	..	5	..
R. R. brakemen	1	..	1	..	..	Delivery men	3	3	..	3	..
Light work	4	..	4	..	..	Leather workers	2	2	..	2	..
Cash boys	1	1	..	1	..	Lathers	4	4	..	4	..
Saw mill hands	52	52	..	52	..	Hotel steward	1	1	..	1	..
Draughtsman	1	1	..	1	..	Hothouse gardener ..	3	3	..	3	..
Messengers	5	5	..	5	..	Truck gardener	9	9	..	9	..
Bridge workers	3	1	2	1	..	Nursery men	4	4	..	4	..
Freight checkers	1	1	..	20	19	Bakers	1	1	..	1	..
Engine wipers	12	12	..	12	..	Butchers	2	2	..	2	..
Grubbers	1	1	..	1	..	Cattle drivers	2	2	..	2	..
Potato diggers	2	2	..	2	..	Pan washer—hotel ..	3	3	..	3	..
Caretaker—houses ..	3	3	..	3	..	Laundry man	5	5	..	5	..
Valet	1	1	..	1	..	Shinglers	4	4	..	4	..
Lunch man	1	1	..	1	..	Cash wagon driver ..	1	1	..	1	..
Freight handlers	32	32	..	32	..	Shipping clerk	1	1	..	1	..
Hotel yardman	4	4	..	4	..	Hotel clerks	1	1	..	1	..
Dish carrier	1	1	..	1	..						
Mason tenders	40	40	..	40	..						
Coachmen	18	18	..	18	..						
Warehousemen	2	2	..	2	..						
Office boys	3	3	..	3	..						
Hospital attendant ..	1	1	..	1	..						
Nurses	6	6	..	6	..						
Lath sawyer	3	3	..	3	..						
						Total	6,846	6,636	210	7,263	627

TABLE IV.—Positions Offered and Filled During the Period from June, 1906, to August, 1906, Classified as Skilled Labor and Unskilled Labor.

Males				Females			
Skilled Labor	Applications for Employment		Applica- tions for Help	Skilled Labor	Applications for Employment		Appli- cations for Help
	Number Filed	No. of Posi- tions Se- cured	Number Filed		Number Filed	No. of Posi- tions Se- cured	Number Filed
Clerical	42	23	42	Clerical	40	22	28
Commercial	89	71	71	Commercial	18	17	22
Professional	8	8	8	Professional	4	....	4
Trades	900	896	882	Trades	66	59	67
Trades apprentices	12	12	12				
Total.....	1,061	1,010	1,015	Total.....	128	98	121
Unskilled Labor.				Unskilled Labor.			
Boys	27	27	27	Agricultural	40	40	135
Agricultural	751	751	1,363	Domestic service	1,156	976	1,525
Domestic service	180	180	180	Manual labor	3,288	3,202	3,277
Manual labor	4,338	4,190	4,170	Hotel work	156	147	194
Transportation	180	179	179	Miscellaneous	43	35	37
Miscellaneous	79	59	59				
Woodsmen	240	240	270				
Total.....	5,795	5,626	6,248	Total.....	4,683	4,400	5,168
Grand total.....	6,846	6,636	7,263	Grand total.....	4,811	4,498	5,289

SUGGESTIONS FOR FIRST AID TO THE INJURED.

Being aware that accidents to working people continually will happen, regardless of what may be the cause of them and prompted by a desire to call the attention of employers as well as of employes to the importance of quick and practical aid to the victims of accidents, the department had prepared by medical authority the following suggestions in poster form and has instructed its inspectors to urge upon employers the advisability of putting them up in a conspicuous place in their workrooms as well as having them distributed amongst their employes, should they wish to possess them.

As a gratifying result of this educational work it may be mentioned that the department has been informed of instances where workmen supplied themselves with the requisite medicaments and bandages, keeping them in their tool chests or some other convenient place near their work ready to be used without delay.

Some employers also are known to have supplied their factory with a regular medicine chest and such other perquisites which may come handy to render first aid in case of accident.

The suggestions are as follows:

General Directions.

1. If accident is serious send for surgeon at once. Arrange the injured person's body in a comfortable position, lying down with the head raised a little; also, have any injured member, as an arm or leg, somewhat raised and straightened. Keep bystanders at a distance. Remove patient to a quiet and airy room, not to an engine room. Give no stimulants except as specified.

Bleeding or Hemorrhage.

2. Clothing should at once be cut away and the wound cleared from all foreign substances and made clean. Then wrap injured part in sterilized gauze and over this place one or more layers of absorbent cotton and a bandage over all. Stop the bleeding by pressure between the wound and the center of the body. To make sufficient pressure use a strong handkerchief or band of cloth tied loosely about the limb above the wound and twisted tightly enough with a stick used as a lever to stop the flow.

Care of Slight Wounds.

3. In the care of slight wounds wash the part with Bichloride of Mercury solution (one 7 grain tablet to a quart of water). Wrap the part with sterilized gauze, absorbent cotton and a bandage.

Simple Fracture.

4. When bones are broken great care should be exercised in handling the patient, not only to avoid giving pain, but also to prevent sharp fragments of bone breaking through the skin. The patient should be placed on his back upon a stretcher or lounge and the injured limb straightened out into most comfortable and natural position. If the skin is not broken light strips of wood padded with cotton and cloth may be snugly bound to the sides of the limb to prevent injury and secure comfort during removal.

Compound Fracture.

5. When the skin and soft parts are also injured in a case of fracture cut away clothing and cover wound with sterilized gauze, absorbent cotton and a bandage. After this is done proceed as with simple fracture.

Burns and Scalds.

6. If a burn or scald is covered with hot clothing pour cold water over it, cut the clothing and gently remove it from around the injured part, so as not to burst the blisters that have been formed. Pour over the wound a mixture of equal parts of lime water and olive oil, then place over injured part sterilized gauze, absorbent cotton and a bandage.

Shock.

7. The signs are cold, clammy skin, feeble pulse and breathing, drooping eyelids, dullness of mind, and sometimes insensibility. Apply hot water bottles, blankets, hot bricks, flannels wrung out of hot water; in fact, anything hot to the whole body, and especially over the heart and the pit of the stomach. At the same time give hot drinks, especially hot black coffee, to which may be added a few teaspoonsful of whiskey or brandy.

Fainting.

8. Lay patient down flat, loosen clothing about neck and chest. Rub limbs, hands and arms. Bathe face and neck with cold water. Wet sponge with ammonia and hold near nostrils.

General Cautions.

9. Use clean sterilized gauze only. Wash hands before applying dressings.

Surgical Outfit for Mills, Workshops and Factories Recommended by the Bureau of Labor.

1. One-half dozen sealed, yard packages of plain sterilized gauze.
2. One-half dozen one-fourth pound packages absorbent cotton.
3. 1½ dozen assorted sizes of muslin or gauze roller bandages.
4. 100 7-grain tablets of Bichloride of Mercury.
5. One small bottle of ammonia.
6. One pair scissors.
7. ½ pound mixture olive oil and lime water.
8. One stretcher and blankets.
9. Three rolls ½-inch adhesive plaster. It is well to have two or three granite pans for use in bathing and cleaning wounds.

MINING

IRON ORE MINING IN MINNESOTA DURING 1904

The results of the iron ore mining operations in Minnesota during the year 1904 are exhibited in four statistical tables. Table 7 relates to the ore shipments from the docks at Duluth and Two Harbors (Minn.) and Alluez Bay (Wis.) to the furnaces at the lower lakes.

Table 2 contains data with reference to the actual operations at the mines, showing ore production, tonnage of ore forwarded from the mines to the ore docks, and number of wage-earners employed during specified months at each mine.

Table 3 gives wage statistics for the year 1904, and in table 4 is recorded the amount of ore mined during the year from state land, and revenue derived from the same by the state.

The five Lake Superior iron ore ranges, viz., Mesabi, Vermilion, Gogebic, Menominee and Marquette Range since any iron ore has been produced from their respective mines, at the close of the year 1904 had shipped a total of 265,696,359 tons of ore, of which the Minnesota mines, located on the Vermillion and Mesabi Ranges furnished 37.5 per cent, or in round numbers 100,817,075 tons.

All Lake Superior mines during the year 1904 shipped 21,822,839 tons, and the part thereof from Minnesota's mines was 13,436,521 tons or 61.5 per cent.

From the data contained in table 1 it will be seen that of the year's shipments from Minnesota's mines 12,156,008 tons came from mines of the Mesabi and 1,282,513 tons from such on the Vermilion range, this being 90.5 and 9.5 per cent respectively.

The season's shipment represented 13.3 per cent of the total production from Minnesota's mines since the first ore from any of these mines was shipped in 1883.

Shipments from all mines of the Mesabi range were lower in 1904 than in 1903 by 736,534 tons, and they were lower by 1,186,832 tons than in the banner year of 1902.

From the mines of the Vermillion Range 394,186 tons of ore were shipped less than in the preceding year and 801,750 tons less than in 1902.

Six mines of the Mesabi Range during 1903 each shipped over one million tons of ore, the Stevenson mine near Hibbing even shipped considerably in excess of 1½ million tons.

The following data in some measure may help to illustrate the magnitude of some of the mines in Minnesota.

The Fayal mine at Eveleth ranks first as greatest producer. The first shipment dates back to 1895 and since then the total shipment amounted to 9,940,727 tons.

The Mountain Iron mine at Mountain Iron, the oldest mine on the Mesabi Range, since 1892 has shipped 9,771,770 tons. The Mahoning mine at Hibbing is entirely a steam-shovel proposition and in operation since 1895; it has 6,507,422 tons to its credit up to the end of the year 1904.

The Adams mine at Eveleth dates back to 1895 and has shipped 6,475,017 tons during the ten years.

The Biwabik mine at Biwabik, also a steam-shovel mine, since 1893 has shipped 5,507,856 tons.

The Lake Superior group at Hibbing had commenced shipments in 1895 and at the end of the navigation season of 1904 had forwarded 4,964,469 tons to the furnaces.

A remarkable record is that of the Stevenson mine near Hibbing. This mine made its first shipment in 1900 and has sent forward during the short space of five years 4,823,588 tons.

The Oliver mine at Virginia with the exception of the year 1899, in which no ore was shipped, and the years from 1901-1904, during which the annual shipments hardly exceeded 5,000 tons, has been in operation since 1893 and has shipped a total of 3,154,498 tons of ore.

There are three other mines on the Mesabi Range each of which shipped over two million tons. They are the Auburn at Virginia, which has been idle since 1902, the Genoa at Sparta, which first shipped in 1896, and the Spruce at Eveleth. Its first shipment was made in 1900.

The banner record for the Vermillion Range can be claimed by the Chandler mine at Ely. Its first shipment was made in 1888 and since then has accumulated to 8,556,326 tons.

The Minnesota or Soudan mine near Tower, the oldest mine on the Vermillion Range and the only mine producing a high grade and very valuable ore, has shipped 7,699,338 tons.

The Pioneer mine at Ely for the first time appeared as shipper in 1889, but during the years 1893 and 1894 being a non-producer, at the close of the season of 1904 had a shipment of 3,785,330 tons to its credit.

The variation in the number of wage earners engaged in mining work is illustrated in table 2, also the results of their labor, as far as production of ore is concerned. While all mines on the Vermillion Range are underground and may be worked to advantage all the year round, a great many mines of the Mesabi Range are pit workings or surface mines and their real activity commences with the opening of the navigation season and after the frost is out of the ground, which at best is but six or seven months of the year.

Table 2 it will be observed in many respects does not harmonize with table 1 and it is therefore necessary to state that the data shown as shipments in the former indicate the amount of ore forwarded from the mines to the ore docks for transportation over the lakes to the furnaces.

In table 2 also are included a number of mines which have been non-producers during the year, either having been out of operation altogether and retaining only a small working force for the purpose of keeping the mine in shape; or mines which have been engaged in developing and exploration work. The shipments from the Lake Superior group of mines at Hibbing in table 1 have been bunched, while in table 2 these mines appear separate. At the Fayal and Adams mines some sections are worked out underground or by the milling process, while others are worked from the surface, besides this there is a great deal of stripping work done. All of this work has been shown separately in table 2. The data for the Savoy mine in this table also contain those for the Sibley mine. They are adjoining properties and worked under the same superintendency. The Oliver mine shown in table 1 appears under the name of Virginia, in table 2, this being the name under which the company operates this mine.

The Soudan or Minnesota mine was in productive operation during nine months of 1903 and during this period had furnished employment to an average of 552 wage earners. This mine was shut down in October, 1903, and since then only a small force has been kept employed around the mine.

The other mines on the Vermillion Range, all being located at Ely have been in operation during the whole of the year 1904, although the number of wage earners employed was much lower than during the preceding year as will be seen from the following exhibit:

NUMBER OF WAGE-EARNERS.

1903 and 1904.

January	1539	995	July	1456	887
February	1481	979	August	1382	839
March	1520	988	September	1224	871
April	1419	965	October	1004	881
May	1522	450	November	918	956
June	1482	862	December	843	983

The production of ore was 289,785 tons lower than in the preceding year.

The unsettled condition of the question of lake transportation in the early part of the shipping season of 1904 resulted in a reduction of the working force at the mines of over fifty per cent, during the month of May. That the number of wage earners during the months of June to October was lower than in other months, according to the statement of mine managements, was because of the abundance of work in the lumber camps and at the sawmills nearby. Men preferring this work even at lower wages than the work underground in a mine. The mines during these months were rather short-handed.

Mining work on the Mesabi Range presents a different feature. The underground mines are worked during the whole of the year, but the open or surface mines are greatest in number and considering all wage earners engaged in mining work on this range we find that during the first three months of the year their number falls below fifty per cent of that of the busy season which commences in June and lasts to the end of the navigation season. The months of April and May again giving indications of renewed activity by a greater number of wage earners being put to work.

The wage statistics of table 3 embraced 49 mines. They have been obtained from the mine managements and show many variations in the rate of pay for certain grades of labor. From the table has been prepared the following exhibit, showing lowest and highest rate of daily wages for the principal mine employees.

Miners—contract	\$1.88	\$2.55
Miners comp. acc.	1.80	2.00
Timbermen	1.75	2.00
Trammers	1.70	1.80
Pump and pipemen	1.80	1.90
Underground trackmen	1.86	1.90
Cage and skip tenders	1.25	1.70
Chutemen	1.70	1.80

General underground labor	1.60	1.70
Surface labor .....	.....	.....
Engineers	1.90	2.00
Brakemen	2.00	2.00
Firemen	1.70	2.00
Landers and dumpers	1.70	1.80
Rock pickers	1.60	1.80
Pocket men	1.70	1.80
Machinists	2.47	2.80
Machinists' helpers	1.65	1.85
Blacksmiths	1.85	2.60
Blacksmiths' helpers	1.00	1.90
Carpenters	1.80	2.28
Carpenters' helpers	2.00	2.26
Teamsters	1.65	1.80
Timber framers	1.75	2.14
Change house men	1.50	1.70
Steam shovel engineers	4.25	5.63
Steam shovel cranemen	3.25	4.45
Steam shovel firemen	2.00	2.00
Steam shovel laborers	1.75	1.75
Coal wheelers	1.60	2.00
General surface labor	1.50	1.85

The rates shown to have prevailed for thirty-five mines may be considered as representing the average wage conditions during 1904, for over ninety per cent of all mine workers are included in them. Wages were higher during 1903 as will be seen by comparison with the report contained on pages 372-373 of the Ninth Biennial Report of the Bureau of Labor, 1903-1904.

The effects of the changes were as follows:

	From daily wages of 1903.		
Miners—contract	16.8	percent decrease.	
Miners' comp. acc.	5.7	"	"
Timbermen—contract	18.7	"	"
Timbermen comp. acc.	11.2	"	"
Trammers—comp. acc.	10.5	"	"
Trammers—contract	17.8	"	"
Trammers—mule drivers	13.0	"	"
Trammers—motormen	10.0	"	"
Trammers—brakemen	15.4	"	"
Puffermen	3.6	"	"
Power drillmen	15.7	"	"
Rock pickers	11.6	"	"
Mine samplers	8.8	"	"
Pump and pipemen	10.3	"	"
Underground trackmen	10.4	"	"
Cage and skip tenders	10.4	"	"
Chutemen	11.7	"	"
Tool carriers	6.0	"	"
General underground labor	12.3	"	"

Surface Labor.

Engineers	10.8	"	"
Motormen	11.5	"	"
Brakemen	0.2	"	"
Firemen	7.5	"	"
Electricians	0.1	percent increase.	
Compressormen	10.3	percent decrease.	
Landers and dumpers	10.9	"	"
Rock pickers	7.6	"	"
Pocket men	12.3	"	"
Crusher men	8.2	"	"
Samplers	17.1	"	"
Machinists	15.1	"	"
Machinists' helpers	4.3	"	"
Blacksmiths	6.4	"	"
Blacksmiths' helpers	9.4	"	"
Carpenters	6.7	"	"
Carpenters' helpers	13.0	percent increase.	
Masons	40.3	percent decrease.	
Masons' helpers	17.4	"	"
Barnmen	11.4	"	"
Teamsters	8.8	"	"
Teamsters' helpers	8.7	"	"
Timber framers	15.3	"	"
Pipemen	13.3	"	"
Steam shovel engineers	13.0	percent increase.	
Steam shovel cranemen	6.5	"	"
Steam shovel firemen .....	...	
Steam shovel laborers	12.5	percent decrease.	
Diamond drill setters ..	23.2	"	"
Diamond drill runners	10.9	"	"
Diamond drill firemen and helpers	13.1	"	"
Coal wheelers	7.5	"	"
General surface laborers	4.1	"	"

The State of Minnesota for its own use and benefit has reserved all the minerals such as gold, silver, copper, iron or coal, found or discovered in or upon land which is owned by the state. Exempted, however, are those lands granted or contracted to be conveyed by the United States of the State of Minnesota to aid in the construction of railroads in this state.

In the iron ore belt in Minnesota valuable iron ore deposits are found on such state land.

Upon payment of \$25.00 to the State Treasurer the state issues to any person or corporation for one year the privilege to prospect for iron ore upon such land. A mineral lease cannot be held for two years in succession by the same person or corporation and no lease shall exceed 160 acres. Before the expiration of the lease the holder may secure from the state a contract for the land described

in the lease, which contract runs for fifty years. The holder is required to pay to the state annually the sum of \$100.00 until five years from the completion of a railroad within one mile of the land contracted for. After this the holder is required to at least remove 1,000 tons of iron ore in the first year and thereafter 5,000 tons annually and pay to the state a royalty of 25 cents per ton on a minimum of 5,000 tons, whether any iron ore had been removed or not. On all ore in excess of 5,000 tons the same royalty has to be paid. The state, however, has fixed the weight of a ton of iron ore to be 2,240 pounds.

Table 4 shows the amounts of iron ore which during the years 1904 and 1905 have been mined from state land and for which the corresponding royalty was paid.

The total shipment of ore in 1905 from the five Lake Superior iron ranges was 34,353,456 tons as against 21,822,839 in 1904 and 27,571,121 tons in the best previous year, that of 1902. In 1904 Minnesota had 61 ore shipping mines and 71 in 1905, they contributed 21,830,885 tons or 63.5 per cent of the total shipment. The best previous years for Minnesota were 1902 with 15,427,103 tons and 1903 with 14,569,241 tons to their credit.

Table 5 shows the shipments by mines for 1905. The data has been obtained from the Iron Trade Review of Cleveland, Ohio, which has collected them from mining companies, railroads and selling agents. Table 6 shows the ore productions and shipments for each of 69 separately managed mining properties, six of which are located on the Vermillion Range and all being deep underground mines, while the others are located on the Mesabi Range and mostly open pit or shallow underground mines.

The table further shows the number of months of productive operations and the monthly wage earners' average number employed at each mine. The data has been obtained by the Bureau of Labor from the mining companies. The fact that some mining companies have their head offices outside of the state and no records being kept at the mines, or permitted to be given out by subordinates, accounts for the non-appearance of some of the mines in this table.

Table 7 presents the rates of daily wages paid for classified labor during 1905. Three columns of daily wage rates are given, the lowest rate, the highest rate, and the principal rate. This latter expression means that of the total number of wage earners in one class, the largest number receiving that principal rate of daily

wages, while a minority received lower or higher daily rates. Taking for instance the three rates given for surface laborers, it will be seen that the lowest rate of daily wages was \$1.75 and the highest \$2.00; the principal rate, however, was \$1.95, because out of 1,418 surface laborers 1,009 received an average daily wage rate of \$1.95, while 216 had \$2.00 and 193 between \$1.75 and \$1.95 per day. A study of table 6 will show that the Mountain Iron Mine in 1905 broke all former records in ore production by a single mine. The production and shipment for the season of eight months was a little over 2½ million tons. Taking twenty-five work days for each month or 200 in all we arrive at an average daily production of 12,503 tons. These figures become all the more of interest if we look at the data relating to wage earners.

The daily average for the eight months would have been 502 men and from this may be estimated that the average daily production per man per day was 25 tons.

The Mountain Iron Mine produced during the 8 months of the year, with an average daily number of wage earners of 502 men, 921,944 more tons of ore than the six underground mines on the Vermillion range produced together during 12 months with an average of 1,500 wage earners.

Excepting the Lake Superior group of mines at Hibbing, there were but two mines in 1904 with a record over one million tons, but in 1905 there are seven mines, besides the Mountain Iron, each credited with a production in excess of one million tons. Prominence among these must be given to the Morris mine, which lowered all former records in mining history by producing in its first year 1,070,037 tons of ore.

The mines of the Steel Corporation are operated by the Oliver Iron Mining Company and have been 31 in number, some of which, however, are perhaps strictly speaking one property divided in different classes, so for instance the Fayal Mine at Eveleth in table 6 is reported under three different heads, viz: Fayal-Underground, Fayal-Milling, Fayal-Surface, while in table 5 the shipments from these mining properties appear bunched together. The same is also true of the Adams mine (see tables 5 and 6). The Steel Corporation's mines in Minnesota contributed 62.4 per cent of the total shipments from Minnesota mines and they employed 75 percent of the total wage earners engaged in mining work on the Mesabi and Vermillion ranges, exclusive of the wage earners employed in loading ships at the docks of Duluth and Two-Harbors. Table 6

furnishes insight into the labor conditions in mining work, inasmuch as it gives information relative to the average number of wage earners employed in any one month against the number in some other month.

A comparison of table 7, relating to wage rates in 1905 with the general corresponding data of table 3 for 1904, will show a general advance in wages, amounting to an average of 15 per cent for underground work and 10 per cent for surface labor.

TABLE I.—Iron Ore Shipments of Minnesota Mines During Season of 1904 from Duluth, Two Harbors and Allouez Bay.

Name of Mine	Shipm'ts Long Tons	Name of Mine	Shipm'ts Long Tons
Vermillion Range.		Higgins	35,286
Chandler	422,162	Iroquois	50,215
Minnesota or Soudan	70,713	Jordan	97,474
Pioneer	505,432	Kanawha	912
Savoy	74,866	Lake Superior Group	1,226,066
Sibley	122,783	Kinney	6,225
Zenith	86,527	La Belle	89,554
Total	1,282,513	La Rue	105,170
Mesabi Range.		Laura	3,778
Adams	940,105	Leetonia	228,536
Agnew	96,435	Leonard	151,952
Albany	153,433	Lincoln	153,822
Bessemer	86,303	Longyear	221
Blwabik	647,614	Mahoning	706,325
Cass	29,554	Malta	66,641
Chisholm	130,732	Minorca	121,739
Clark	256,873	Morrow	33,012
Commodore	249	Mountain Iron	1,168,855
Corsica	30,131	Oliver	5,395
Croxton	348	Pearce	235
Cyprus	244,343	Pettit	27,088
Day	84,530	Scranton	1,168
Duluth	149,819	Sellers	207,990
Elba	123,425	Shenango	51,712
Fayal	975,102	Sparta	59,692
Forrest	85,280	Spruce	589,319
Franklin	65,528	St. Clair	26,748
Frantz	62,884	Stevenson	1,652,021
Genoa	244,150	Troy	12,759
Glen	280,412	Utica	120,697
Grant	44,413	Winnifred	81,686
Hawkins	99,055	Yates	53,179
		Total	12,156,008
		Total, both ranges	13,438,521

TABLE II.—Iron Ore Mining Operations in Minnesota During the Season of 1904.

Mine	Long Tons		Productive Months	Number of Wage-Earners Employed												
	Produc- tion	Ship- ment		Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
Vermillion Range																
Chandler	365,978	422,171	11	402	396	386	377	52	293	306	298	286	280	285	284	
Pioneer	408,015	505,432	11	305	294	311	291	78	316	323	291	294	313	346	372	
Savoy	196,082	197,789	12	131	156	161	153	194	143	149	143	148	147	168	176	
Soudan	4,712	70,713	.....	28	28	28	28	26	26	22	21	21	21	64	46
Zenith	81,643	86,557	11	157	133	130	144	136	110	109	107	143	141	157	151	
Mesabi Range.																
Auburn	1,155,780	1,155,780	.....	1	1	1	1	1	1	1	1	1	1	1	1
Burt	216,962	255,873	7	15	10	10	30	10	144	220	237	201	225	214	169	
Clark	91,645	131,056	12	128	193	153	105	255	187	239	222	206	205	225	246	
Chisholm	72,330	84,530	11	68	77	79	76	63	131	163	170	172	173	178	237	
Day	290,338	280,413	12	216	166	181	177	204	202	221	184	181	213	210	309	
Glen	14,835	.....	3	57	65	78	66	85	95	80	103	92	87	149	183
Myers	25,842	49,530	3	32	31	20	18	11	41	52	105	103	140	274	265	
Hull	.....	.....	.....	86	134	193	183	223	208	262	231	203	174	165	183
Monroe-Tener	.....	.....	.....	11	10	8	12	12	1	24	23	23	23	11	1
Morris	.....	.....	.....	37	7	14	17	16	15	6	16	16	13	12	14
Pillsbury	107,167	210,510	7	27	35	27	7	7	117	172	173	175	177	108	203	
Rust	29,540	28,748	6	84	77	85	81	74	64	27	.....	25	35	31	12
St. Clair	223,836	207,999	12	134	155	133	124	121	133	143	143	176	227	149	244	
Sellers	35,454	35,317	4	18	53	71	53	69	11	90	73	89	107	103	87	
Sharon	1,168,855	1,168,855	7	47	52	58	74	101	262	282	253	224	211	201	224	
Higgins	.....	.....	.....	1	1	1	1	1	1	.....	.....	1	.....	.....	.....
Mountain Iron	.....	.....	.....	3	1	1	1	1	.....	.....	15	.....	.....	.....	.....
Sauntry	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Stevens	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Virginia	5,385	5,385	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

	Adams (U. G.)	Adams (Mig.)	Duluth (U. G.)	Fayal (U. G.)	Fayal (Mig.)	Fayal (Sur.)	Genoa	Penobscot	Adams (Strip)	Leonard	Bessmer	Franklin	Kinney	Petit	Blwabik	Commodore	Jordan	Albany	Coralea	Elba	Malta	Minorca	Scranton	Utica	Sparta	Letonia	Cyprus (a.)	Agnew	Cass	Hawkins	La Rue	Morrow	Grant	Lincoln	Stevenson	Maehoning	Iroquois	Shenango
644,847	761,007	12	6	12	6	12	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6	12	6
839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839	839
755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755	755
764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764	764
654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654	654
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452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452
474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474	474
498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498	498
863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863	863

(a) Wage-earners included in report of Letonia Mine.

Average number of wage-earners employed during each month of season—140

Average number of wage-earners for the year—115 per month

Average number of wage-earners during each month of season—45

Average number of wage-earners per month, including 6 months developing work—140 men.

TABLE III.—Iron Ore Mines in Minnesota. Wages Paid During Season of 1904.

Classification of Labor	Wage-Rate Per Day						
	For 35 Mines *	For 9 Mines	For 1 Mine	For 1 Mile	For 1 Mine	For 1 Mine	For 1 Mine
Underground Labor.							
Miners—Contract work.....	\$1.88.5	\$2.10		\$2.55			
Miners—Company account...	1.81.7	1.80	\$2.00	1.80	\$1.80	1.75-1.85	
Timbermen—Contract work...	1.89.5						
Timbermen—Company acct..	1.84.9	2.00	2.00	1.80	1.80	1.75-1.85	\$1.80
Timbermen—Helpers		1.70					
Trammers—Company acct...	1.73.5	1.70	1.80	1.70		1.75	
Trammers—Contract work...	1.77.3	1.85					
Trammers—Mule drivers	1.74.9	1.70					
Trammers—Motormen	1.73.9						
Trammers—Brakemen	1.70.0						
Puffermen	1.80.0						
Power drillmen	1.89.6						
Rock pickers	1.87.7						
Mine samplers	2.01.7				1.60		1.65
Pump and pipemen	1.91.0	1.80			1.90		1.90
Underground trackmen	1.86.0	1.90					
Cage and skip tenders.....	1.67.6	1.70	1.70	1.25		1.25	
Chutemen	1.79.7	1.70	1.80	1.70		1.75	
Tool carriers	1.60.0						
General underground laborers	1.68.2	1.70	1.70			1.60	
Surface Labor.							
Engineers—Locomotive							\$3.50
Engineers	\$1.96.3		\$1.90	\$2.00		\$2.00	
Motormen	1.72.2						
Brakemen	2.00.0	\$2.00					2.00
Firemen	1.85.0	1.90	1.80	1.70	\$1.90	2.00	2.00
Electricians	2.26.6						
Compressor men	1.81.2						
Landers and dumpers.....	1.73.3	1.70	1.70	1.80		1.75	
Rock pickers	1.60.0		1.70	1.80	1.60	1.75	1.65
Pocket men	1.73.3		1.70	1.80		1.75	
Crusher men	1.65.0						
Samplers and sample grinders	1.77.2						
Machinists	2.47.2	2.65					2.80
Machinists helpers	1.85.1						1.65
Blacksmiths	2.59.0	2.50	2.25	1.85	2.25	2.25-2.50	2.60
Blacksmiths helpers	1.71.3	1.70			1.65	1.00	1.90
Carpenters	2.28.1	2.25	1.80	2.05			2.25
Carpenters helpers	2.26.0	2.00					
Masons	2.66.7						
Masons helpers	1.62.3						
Barnmen	1.94.1						
Teamsters	1.80.8	1.80	1.70	1.70	1.65	1.75	1.65
Teamsters Helpers	1.54.9						
Timber Framers	2.14.4	1.90	2.00	1.80		1.75-1.85	
Change-house men	1.51.8	1.60	1.70	1.70			1.50
Pipemen	1.87.0	1.80					
Steam shovel engineers.....	4.80.3	4.25					5.63
Steam shovel cranemen.....	3.46.0	3.25					4.45
Steam shovel firemen.....	2.00.0						2.00
Steam shovel laborers.....	1.75.0	1.75					1.75
Diamond drill setters.....	3.00.0						
Diamond drill runners.....	2.45.0						
Diamond drill firemen and helpers	1.88.1						
Coal wheelers	1.60.0		1.80	1.70		2.00	
Tool sharpeners		1.80					
Swampers		1.60					
Surface timbermen		1.75					
General surface laborers.....	1.77.9	1.60	1.85	1.60	1.50	1.60	1.65

* Average daily rate computed from total wages earned by each class of labor during season.

**TABLE IV.—Iron Ore Mined and Removed from State Land During 1904 and 1905,
and Royalty Paid for Same.
One ton, 2,240 lb.**

Mine	1904		1905	
	Tons *	Royalty	Tons	Royalty \$
Missabe Mountain	5,394	\$ 1,384.65	9,853	\$ 2,463.00
Pool	123,270	30,817.67	394,479	98,619.86
Grant	44,412	11,103.21	49,227	12,306.94
Elizabeth	1,167	291.99		
Frantz	63,336	15,834.07	69,757	17,439.36
Yates	53,842	13,460.69	58,319	14,579.97
Total	291,424	\$72,892.28	581,655	\$145,409.13

* Fraction of tons omitted.

**TABLE V.—Iron Ore Shipments of Minnesota Mines During Season of 1905 from
Lake Ports of Duluth, Two Harbors and Allouez Bay and by Rail.**

Name of Mine	Shipments Long Tons	Name of Mine	Shipment Long Tons
Vermillion Range.			
Chandler	365,739	Jordan	185,854
Pioneer	653,682	Kinney	89,161
Savoy	91,775	La Belle	78,597
Sibley	251,170	La Rue	197,192
Soudan or Minnesota	205,002	Laura	27,207
Zenith	109,818	Leetonia	352,004
Total	1,677,186	Leonard	297,011
		Lincoln	275,777
Mesabi Range.		Longyear	16,778
Adams	1,140,984	Mahoning	1,011,661
Agnew	44,651	Malta	139,853
Ajax form. Kanawha	28,439	Miller	113,520
Albany	241,186	Minorca	117,653
Alexander	15,073	Monroe	13,730
Bessemer	112,630	Morris	1,070,937
Biwabik	1,092,987	Morrow	60,752
Burt	1,860,452	Mountain Iron	2,495,089
Cass	59,552	Myers	188,568
Chisholm	231,296	Pettit	140,239
Cincinnati	965	Pillsbury	161,924
Clark	358,091	Rust	272,114
Columbia	1,360	Sellers	261,501
Commodore	146,901	Shenango	213,097
Croxton	130,228	Sparta	27,777
Cyprus	236,361	Spruce	606,295
Duluth	142,172	St. Clair	61,792
Elba	125,724	Stephens	367,764
Fayal	1,358,922	Stevenson	1,428,614
Forest	99,785	Tener	54,156
Frantz	70,210	Troy	87,584
Genoa	281,081	Utica	185,944
Glen	287,835	Virginia (Oliver)	402,221
Grant	49,227	Webb	71,276
Hawkins	202,070	Wills	4,550
Hector form. Hale	4,990	Yates	58,174
Higgins	228,598	Total	20,153,699
Holland	158,484	Total 71 mines, both ranges	21,830,885
Hull	233,065	Shipments by lake	21,705,774
Iroquois	61,109	Shipments by rail	125,091

TABLE VI.—Iron Ore Mining Operations in Minnesota During the Season of 1905.

Mine	Long Tons		Productive Months	Number of Wage-Earners Employed												Dec.
	Production	Ship- ment		Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.		
Vermillion Range.																
Chandler	351,323	365,739	12	278	254	280	259	259	270	269	263	248	235	232	246	
Pioneer	654,816	653,652	12	451	514	578	594	595	606	574	572	525	547	548	572	
Savoy and Sibley	316,738	342,994	12	241	220	207	203	228	221	218	224	201	207	224	219	
Soudan	165,075	205,002	12	306	325	337	332	333	314	346	332	302	293	300	300	
Zenith	89,674	109,818	12	171	135	155	188	191	128	172	167	151	156	149	133	
Mesabi Range.																
Burt	1,851,690	1,851,690	8	64	73	57	231	265	230	350	310	358	300	228	132	
Clark	342,116	353,889	12	259	262	265	250	252	223	263	226	197	198	212	190	
Chisholm	234,032	232,734	12	276	245	262	249	203	216	225	238	253	242	314	274	
Glen	285,354	289,659	12	306	279	245	239	221	262	234	190	168	181	193	194	
Hull	251,679	233,776	12	353	428	360	243	310	243	229	209	192	204	229	304	
Monroe-Tener	85,216	71,866	8	217	236	372	412	406	460	563	646	482	406	347	287	
Morris	1,071,315	1,071,315	7	22	42	65	108	193	174	264	267	257	242	242	180	
Myers	190,280	188,627	12	172	158	198	214	183	161	199	221	214	212	206	204	
Pillsbury	162,058	162,058	10	102	237	208	159	106	111	131	147	117	100	84	49	
Pittsford	283,678	272,451	12	288	282	279	270	224	173	243	223	220	181	186	194	
Rust	14,891	61,792	.....	6	6	5	12	4	4	53	52	17	15	15	16
St. Clair	257,527	282,206	12	284	263	267	268	274	325	388	433	307	231	223	267	
Sellers	859,621	873,956	12	886	942	988	912	736	707	709	743	746	709	916	1,088	
Adams (under ground)	267,028	267,028	7	.....	.....	.....	12	117	121	118	128	124	137	.....	.....
Adams (milling)	142,172	142,172	7	43	35	49	53	118	97	104	102	89	70	56	34	
Duluth	814,031	849,044	12	643	644	643	691	707	777	777	864	686	676	604	607	
Fayal (under ground)	549,838	549,838	7	6	7	6	27	106	139	139	125	136	153	80	19	
Fayal (surface)	239,725	231,081	12	163	170	166	156	153	175	151	156	146	141	181	154	
Genoa	586,934	606,295	12	610	627	656	689	710	666	684	669	646	666	655	718	
Spruce	2,500,570	2,500,570	8	161	156	147	344	454	497	551	570	576	562	383	383	
Mountain Iron	402,224	402,224	6	.....	.....	.....	74	120	121	117	106	100	84	47	43
Virginia	246,740	238,598	12	87	60	66	135	176	165	161	171	186	221	211	140	
Higgins No. 2	367,764	367,764	8	21	15	7	156	196	236	249	286	318	295	270	227	
Stephens .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Day .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fayal (milling) .....	.....	.....	.....	1	5	2	.....	.....	.....	.....	.....	.....	.....	.....	.....

Adams (stripping)	21	11	26	57	142	169	221	231	203	205
Hull-Rust (stripping)	118	123	156	232	283	282	297	369	297	247
Canisteo	79	120	135	242	289	280	285	384	380	344
Lincoln	8	160	180	269	94	108	98	72	74	234
Grant	12	160	160	160	160	160	160	160	160	160
Shenango	12	25	33	198	164	173	134	144	140	133
Leonard	12	30	33	198	164	173	134	144	140	133
Commodore	12	74	148	191	203	181	220	192	211	174
Jordan	12	9	21	162	116	84	77	76	70	174
Biwabik	12	162	162	162	162	162	162	162	162	162
Leetonia and Cypress	12	162	162	162	162	162	162	162	162	162
Maahoning	8	175	175	175	175	175	175	175	175	175
Mahoning	10	175	175	175	175	175	175	175	175	175
Mohaw	11	36	36	36	36	36	36	36	36	36
Elba	12	104	104	104	104	104	104	104	104	104
Minerco	12	104	104	104	104	104	104	104	104	104
Malta	12	90	90	90	90	90	90	90	90	90
Sparta	12	118	118	118	118	118	118	118	118	118
Wyand	10	96	96	96	96	96	96	96	96	96
Albany	12	73	73	73	73	73	73	73	73	73
Utica	12	134	134	134	134	134	134	134	134	134
Holland	19	175	175	175	175	175	175	175	175	175
Hector	10	14	24	21	130	175	161	110	120	125
Ajax	10	11	11	11	11	11	11	81	81	81
Webb	11	81	81	81	81	81	81	81	81	81
Laura	6	81	81	81	81	81	81	81	81	81
Yates	12	135	162	156	159	162	143	163	140	247
Frantz	7	161	176	182	187	160	161	173	172	172
Susquehanna	7	None	None	None	None	None	None	None	None	None
Iroquois	8	9	9	22	28	50	71	82	50	64
Morrow	9	41	46	69	91	86	63	91	92	49
Cass	12	41	46	69	91	86	63	91	92	49
Bessemer	12	58	61	68	80	69	64	66	98	83
Pettit	12	38	44	56	84	73	50	66	98	83
hunny	8 1/2	12	31	44	66	68	67	69	94	118
Wills	7 1/2	16	31	44	66	68	67	69	94	118
Miller	12	67	79	90	53	76	75	46	67	76
La Belle	12	71	79	75	63	78	14	44	18	12
La Belle	12	71	79	75	63	78	14	44	18	12
Hawkins	9	1	1	1	78	86	84	64	63	167
Agnew	12	79	48	6	87	9	88	11	13	49
Agnew	12	79	48	6	87	9	88	11	13	49

TABLE VII.—Daily Wage Rate For Classified Mining Labor During 1905 Showing Lowest and Highest Daily Rate and Principal Rate Paid to Largest Number of Wage Earners in Class.

Classification of Labor	Lowest Daily Wage Rate	Highest Daily Wage Rate	Principal Daily Wage Rate
Underground Labor.			
Miners	\$2.00	\$2.50	\$2.20
Timbermen	2.00	2.25	2.20
Timbermen helpers	1.80	1.80	1.80
Trammers	2.00	2.25	2.00
Trammers—Mule drivers	1.85	2.00	2.00
Trammers—Motormen	1.90	1.90	1.90
Trammers—Brakemen	1.90	1.90	1.90
Puffermen	1.95	2.00	2.00
Power drillmen	2.20	2.25	2.20
Rock pickers	2.20	2.20	2.20
Mine samplers	2.25	2.25	2.25
Pump and pipemen	2.00	2.25	2.20
Underground trackmen	1.95	2.25	2.20
Cage and skip tenders	1.80	2.20	2.00
Chutemen	1.80	2.00	2.00
Tool carriers	1.75	1.75	1.75
General underground laborers	1.80	2.00	1.95
Surface Labor.			
Engineers—Locomotive	3.25	3.50	3.25
Engineers—Hoisting	2.15	2.35	2.25
Motormen	2.00	2.15	2.00
Brakemen	2.10	2.10	2.10
Switchmen	2.75	2.75	2.75
Firemen	2.00	2.10	2.10
Electricians	2.35	2.60	2.55
Compressormen	2.25	2.30	2.30
Landers and dumpers	1.90	2.00	2.00
Rock pickers	1.80	1.80	1.80
Pocketmen	1.95	2.00	2.00
Crushermen	1.85	1.85	1.85
Samplers and sample grinders	2.00	2.00	2.00
Machinists	2.75	4.00	3.25
Machinists helpers	1.90	2.50	2.25
Blacksmiths	2.50	3.00	2.75
Blacksmiths helpers	1.75	2.25	1.85
Carpenters	2.25	3.00	2.50
Carpenters helpers	1.80	2.25	1.85
Masons	4.00	4.00	4.00
Masons helpers	2.00	2.00	2.00
Barnmen	2.05	2.05	2.05
Teamsters	1.90	2.25	2.00
Timber framers	2.00	2.25	2.20
Change house men	1.50	1.85	1.65
Pipemen	2.00	2.20	2.20
Steam shovel engineers	4.80	5.50	4.80
Steam shovel cranemen	3.35	3.60	3.45
Steam shovel firemen	2.00	2.25	2.25
Steam shovel laborers	1.85	2.15	2.00
Diamond drill setters	3.00	3.00	3.00
Diamond drill runners	2.90	3.00	2.95
Diamond drill firemen and helpers	2.25	2.25	2.25
Swampers	1.75	2.00	1.85
Surface general laborers	1.75	2.00	1.95

MINE INSPECTIONS BY COUNTY OFFICIALS

The legislature of 1905 provided for mine inspection by inspectors to be appointed by the board of county commissioners of any county in the state where at least five mines are situated and in operation.

The text of the law follows:

An act to provide for the appointment of inspectors of mines in counties of this state, to prescribe their powers and duties, and to provide for their compensation and expenses.

Be it enacted by the Legislature of the State of Minnesota:

SEC. 1. That the board of commissioners of any county in this state where there are at least five mines situate and in operation is hereby authorized and directed on or before the first day of July, 1905, to appoint an inspector of mines, who shall hold office for the term of three years or until his successor is appointed and qualified for the purpose of discharging the duties hereinafter prescribed; to fix the compensation and traveling expenses of such inspector and provide for the payment of the same, and to remove such inspector and appoint another in his place whenever in the judgment of said board the best interests of the owners and employes of such mines may so require, and to fill vacancies arising from any other cause than removal.

SEC. 2. Such inspector of mines shall be at least twenty-five years of age, a citizen of the State of Minnesota and a resident of the county wherein he is appointed, shall be of good moral character and temperate habits, and shall have had previous to his appointment practical experience as a miner or otherwise engaged as an employe in mines of the state at least six years, or a mining engineer having had previous to his appointment at least two years' practical experience in iron mines and iron mining and having had at least one year's such experience in this state. He shall not while in office in any way be interested as an owner, operator, agent, stockholder or engineer of any mine. He shall make his residence or have his office in the mining district of the county for which he is appointed. The salary of the inspector of mines shall be such sum as shall be fixed by the board of county commissioners, not exceeding two thousand dollars per annum, and he shall in addition be allowed actual traveling expenses not exceeding three hundred dollars in any one year. He shall file with the county auditor an itemized account of his expenses every three months, verified by his affidavit, showing that they have been incurred in the dis-

charge of his official duties. He shall, before entering upon the discharge of the duties of his office, take an oath before some person authorized by law to administer oaths that he will support the Constitution of the United States and the Constitution of the State of Minnesota and that he will faithfully, impartially and to the best of his ability, discharge the duties of his office, and he shall file a certificate of his having done so in the office of the auditor of the county for which he is appointed, and he shall also give a bond payable to said board of commissioners in the penal sum of five thousand dollars, with good and sufficient sureties to be approved by the board of county commissioners of the county for which he is appointed, conditioned that he will faithfully discharge the duties of his office, and said bond shall be filed with the county auditor of such county.

SEC. 3. The duties of the inspector of mines shall be to visit all the working mines of his county at least once in every ninety days and oftener if requested so to do as hereinafter provided, and closely inspect the mines so visited and condemn all such places where he shall find that the employes are in danger from any cause, whether resulting from careless mining or defective machinery or appliances of any nature; he shall compel the erection of a partition between all shafts where hoisting of ore is performed, and where there are ladder ways, where men must ascend or descend going to and from their work. In case the inspector of mines shall find that a place is dangerous from any cause as aforesaid, it shall be his duty immediately to order the men engaged in the work at the said place to quit work, and he shall notify the superintendent, agent or person in charge, to secure the place from the existing danger, which said notification or order shall be in writing, and shall clearly define the limits of the dangerous place, and specify the work to be done, or change to be made to render the same secure, ordinary mine risks excepted. It shall also be the duty of the inspector of mines to command the person, persons or corporation working any mine, or the agent, superintendent, foreman or other person having immediate charge of the working of any mine, to furnish all shafts, open pits, caves and shutes of such mine where danger exists with some secure safeguard at the top of the shaft, open pit, cave or shute so as to guard against accidents by persons falling therein or by material falling down the same, also a covering overhead on all the carriages on which persons ascend or descend up and down the shaft, if in his judgment it shall be practicable and necessary for the purpose of safety. *Provided*, that when any mine is idle or abandoned it shall be the duty of the inspector of mines to notify the person, persons or corporation owning the land on which any such mine is situated or the agent of such owner or owners, to erect and maintain around all the shafts, caves and open pits of such mine a fence of railing suitable to prevent persons or domestic animals from accidentally falling into said shafts, caves or open pits. Said notice shall be in writing and shall be served upon such owner, owners or agent, personally, or by leaving a copy at the residence of any such owner or agent if they or any of them reside in the county where such mine is situated, and if such owner, owners or agent are not residents of the county such notice may be given by publishing the same in one or more newspapers printed and circulating in said county if there be one and if no newspaper be published in said county then in a newspaper published in some adjoining county, for a period of three consecutive weeks.

SEC. 4. If any person or persons are required to continue work in any place or places in which the inspector of mines has ordered employes to quit work as aforesaid, except to do such work as may have been by him required to be done in order to render such place or places safe, ordinary risks of mining excepted, the person or persons or corporation so requiring employes to work in such place or places shall be liable for all accidents causing injury or death to any employe arising by reason of such place or places not having been repaired or changed as required by said inspector.

SEC. 5. It shall be lawful for inspectors of mines to enter, examine and inspect any and all mines and machinery belonging thereto at all reasonable times by day or by night, but so as not to obstruct or hinder the necessary workings of such mines and it shall be the duty of the owner, operator or agent of every such mine upon the request of the inspector of mines to furnish for his inspection all maps, drawings and plans of the mine, together with the plans of all contemplated changes in the manner of working the mine or any part thereof; to furnish him with some suitable person or persons as he may desire to accompany him through the mine or any part thereof, and also to furnish him suitable ladders and other necessary appliances to make a proper inspection and to furnish upon request the inspector of mines with all necessary facilities for such entry, examination and inspection, and if the said owner, operator or agent aforesaid shall refuse to permit such inspection or to furnish the necessary facilities for such entry, examination and inspection and shall continue so to refuse or permit after written request therefor made by the inspector of mines, such refusal or neglect shall be deemed a gross misdemeanor and upon conviction therefor such owner, operator or agent shall be punished by a fine of not less than one hundred or more than five hundred dollars for each and every offense.

SEC. 6. The salary and expenses of the inspector of mines shall be paid out of the treasury of the county for which he is appointed by vouchers similar to those used by other county officials. The board of county commissioners shall furnish the inspector of mines with the necessary books, stationery and supplies.

SEC. 7. Whenever twenty or more persons working in any mine or place where mining is done, or the owner, operator or agent of any mine, shall notify the inspector of mines in writing that his services are needed, he shall immediately make an inspection thereof and shall examine as to the necessary precautions and general safety of the mines and see that all the provisions of this act are observed and strictly carried out.

SEC. 8. Whenever by reason of any accident in any mine, loss of life or serious personal injury shall occur, it shall be the duty of the manager or superintendent of the mine, and in his absence the person or officer under him in charge of the mine, to give notice thereof forthwith to the inspector of mines, stating the particulars of such accident, and the said inspector shall, if he deems it necessary from the facts reported, go immediately to the scene of such accident and make such suggestions and render such assistance as he may deem necessary in the premises and personally investigate the cause of such accident and take such steps as he may deem necessary for the safety of the employes of such mine and to prevent accidents of a like or similar nature.

SEC. 9. The owner, operators or agent of any mine shall at all times keep a sufficient and suitable supply of timber and logging on hand, when required to be used as supports, props or otherwise in the mining work, so that the workings of such mine may be rendered reasonably safe and secure.

SEC. 10. Any workman, employe or other person who shall open, remove or disturb any fence, guard or rail and not close or replace or have the same closed or replaced again around or in front of any shaft, test pit, shute, excavation, cave or land liable to cave, injure or destroy, whereby accident, injury or damage results, either to the mine or those at work therein, or to any other person shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punished by a fine not exceeding fifty dollars or imprisonment for not more than sixty days in the county jail for each and every such offense.

SEC. 11. It shall be the duty of the inspector of mines appointed under this act to make and file no later than September 1st of each year with the auditor of the county for which he is appointed and with the state commissioner of labor a full and complete report of all his acts, proceedings and doing hereunder for each year ending June thirtieth, stating therein, among other things, the number of visits and inspections made, the number of mines in operation, the number not in operation, the names of the mines, where located, the owners, lessees or managers, the names of the officers, the quantity of ore shipped, the number of men employed, the average wages for different kinds of work, the number of accidents, fatal or otherwise, the cause of such accidents, and such other information in relation to the subject of mines and mining inspection as he may deem of proper interest and beneficial to the mining interests of the state. Such reports shall be included in the biennial report of the state commissioner of labor.

SEC. 12. Any owner, operator or agent of any mine in this state violating the provisions of this act shall be deemed guilty of a gross misdemeanor and for each offense upon conviction shall be fined not less than one hundred dollars or more than five hundred dollars.

SEC. 13. Any inspector of mines appointed hereunder failing to comply with the requirements of this act shall be guilty of a gross misdemeanor and upon conviction thereof shall be fined not less than one hundred or more than one thousand dollars and be dismissed from office, and the said board of commissioners shall remove him from office for neglect of duty, drunkenness, incompetency, malfeasance in office and other good cause.

SEC. 14. This act shall take effect and be in force from and after its passage.

Approved April 13, 1905.

Eveleth, Minnesota, August 27th, 1906.

Mr. W. H. Williams, Commissioner of Labor, State of Minnesota,
St. Paul, Minn.

Dear Sir:—I herewith respectfully submit my first annual report as Inspector of Mines for St. Louis county, for the year ending June 30th, 1906; in compliance with Chapter 166, of the General Laws of Minnesota for 1905. You will note from the following tables all data for accidents, number of visits and inspections, average wages, average number of men employed, the number and location of mines, their officers and operators, the number of mines working and not working and the shipments of ore for the year.

The tables show 96 fatal accidents. These accidents were largely due to the carelessness or heedlessness on the part of the victims or those working with them.

Many accidents are attributed to the careless handling of high explosives, and in my opinion men ought not to smoke while handling powder; and they ought not to use a candle stick with a lighted candle in it for making holes in the cartridge for the cap and fuse. The heedless handling of powder heaters is also very dangerous not only to the miners but to others in the mine because of neglect to keep the heaters filled with water.

The most prolific cause of fatal accidents during the year was by cars and locomotives. Some of these fatalities were purely accidental, yet many of them can be attributed to the thoughtlessness and carelessness of the victims while working on or about the cars, as investigation showed that the operators took all due precaution for safety.

Most of the accidents underground are caused by a fall of ground or cave of ore. Many such accidents could be avoided if men were more careful to examine the ground after a blast or before working under it.

In my opinion the condition of the mines is, on the whole, commendable. In all places where men are required to work the ventilation is good except in a few places, which are near to old workings, and in which caved ground there is a considerable amount of decayed timber and the foul gases from which cannot escape when the atmosphere on the surface is heavy and damp.

In all cases I have found the mining companies complying with the law by providing a sufficient supply of timber and lagging.

In all mines I have found drainage and sanitation methods satisfactory.

This being my first report, little comparison can be made with former years, as to the improvements in the mines as regards to their safety. During the year some improvements, in addition to those required by law, and the good condition in which the mines were found, have been made, such as keeping caps and fuse out of mine powder houses, lessening the storage of powder in the mine, providing two exits from mine pump houses, putting valves on steam lines as the collar of shafts, covering the part of the gearing of steam shovel engines that is above the floor of the shovel, placing torch or lantern on head dump car of stripping trains at night, fencing dangerous open pits and covering or filling test pits. At the present time I know of no dangers in the mines other than those common to the risk of mining.

In all cases I have found the mining companies and stripping contractors solicitous for the best conditions of safety for their men and willing to comply with all reasonable requests for bettering the conditions.

Yours very truly,

W. H. HARVEY,

Inspector of Mines.

SUMMARY OF MINE STATISTICS, ST. LOUIS COUNTY, MINNESOTA, YEAR ENDING JUNE 30th, 1906.

Number of mines in county.....	90
Number of mines in operation.....	78
Number not in operation.....	12
Number of visits and inspections made.....	351
Number of tons of iron ore shipped.....	21,828,711
Average number of men employed each month.....	12,838
Number of fatal accidents underground.....	43
Number of fatal accidents on surface, including all open pit, milling and stripping operations.....	53
Number of fatal accidents to employes.....	93
Number of fatal accidents to non-employes.....	3
Number of persons employed per fatal accident.....	139
Average daily wages, underground labor	\$2,285
Average daily wages, surface and skilled labor.....	\$2,505
Number of serious non-fatal accidents.....	50
Number of tons of ore shipped for each fatal accident outside of actual stripping operations.....	327,891

Classification of Fatal Accidents.

By Mines.	By Nature of Accident.	By Nationality
Adams 5	By falling down shaft 1	Finn 39
Albany 1	By falling off timber cage into shaft.. 1	Austrian 21
Agnew 2	By falling off skip into shaft 1	Italian 11
Burt (Porter Bros Stripping) 1	By pushing tram car into shaft and falling with it 1	Swede 5
Bessemer 1	By being struck by skip at collar of shaft 1	Swede-Finn 3
Biwabik 1	By cave on stockpile 1	American 5
Commodore 5	Suffocated by falling with loose ore into milling chute 2	English 3
Croxton 1	By cars and locomotives 27	Polack 2
Clark 1	By steam shovels 2	Hungarian 1
Chandler 1	By cave of ore in chute 1	Austrian-Pole 1
Fayal 2	By falling down raise 1	Canadian 1
Fayal (Drake & Stratton Stripping) 10	By fall of ground 20	Unknown 1
Hull-Rust 2	Scalded by steam 2	Scandinavian 1
Hobart 2	By cave from stripping bank 2	German 1
Holland 2	By falling over stripping bank 2	Montenegron 1
Hector 1	By material falling down shaft 2	
Higgins 3	By explosion of powder 8	
Lincoln 1	By blasts, rock and chunks thrown by same 0	
Leonard (Drake & Stratton Stripping)..... 1	By running motor off end of stock pile trestle 2	
Monroe-Tener 8	Body found in an unused drift, death supposed to have been caused by suffocation 1	
Monroe-Tener (Winston) Dear (Stripping)..... 1	By lifting rail to break it 1	
Mountain Iron 2	By bucket striking platform in shaft 1	
Mahoning 2	Struck by runaway team 1	
Mohawk 9		
Morris 1		
Morris (Drake & Stratton Stripping) 3		
Meyers 1		
Pettit 1		
Soudan 5		
Savoy-Sibley 1		
Spruce 4		
Stevenson 1		
Stephens 1		
Shenango 2		
Sellers 1		
Utica 2		
Webb 4		
Total 96		96

Statement Showing Classification of Labor and Average Wages Year Ending June 30th; 1906. Mines of St. Louis County, Minnesota.

Underground Labor.		
	Rate per day	Rate per month
Mining captains	\$4.567	\$128.73
Shift bosses	2.651	75.00
Miners, contract	2.696	
Miners, company account	2.223	
Timbermen, contract	2.540	
Timbermen, company account	2.213	
Trammers, contract	2.262	
Trammers, company account	2.069	
Trammers, mule drivers	2.083	
Trammers, motor men	2.157	
Trammers, brakemen	2.022	
Puffermen	2.081	
Power drillmen	2.316	
Rock pickers	2.042	
Mine samplers	2.081	
Pumpmen	2.236	
Pipemen	2.254	
Diamond drillmen, runners	2.200	
Diamond drillmen, helpers	2.060	
Underground trackmen	2.185	
Cage and skip tenders	2.029	
Chutemen	2.070	
Underground track foremen	2.450	
Tool carriers	1.600	
General underground laborers	2.072	
Total underground labor	\$2.285	\$101.89
Surface Labor, Stripping Work and Open Pit Mines		
Engineers	\$2.307	
Firemen	2.097	
Motormen	2.054	
Brakemen	1.967	
Electricians	2.484	\$65.00
Compressormen	2.248	
Landers and dumpers	2.041	
Rock pickers	1.825	
Pocket men	2.005	
Crushermen	2.084	
Samplers and sample grinders	1.970	
Machinists	3.115	86.00
Machinists, helpers	2.246	
Blacksmiths	2.799	
Blacksmiths, helpers	2.064	
Carpenters	2.803	
Carpenters, helpers	2.298	
Masons	4.147	
Masons, helpers	1.957	
Surface foremen	3.290	91.68
Barnmen	2.096	60.00
Teamsters	2.020	
Teamsters, with team	4.984	
Teamsters, helpers	1.936	
Timber framers	2.278	
Timber framers, contract	3.000	
Timber scalers	1.952	
Office clerks	3.042	78.03
Shipping clerks	2.290	75.00
Shipping clerks, assistants	1.372	
Time keepers	2.250	59.06
Warehouse men	2.352	
Mining engineers	3.925	84.00
Mining engineers, assistants	2.449	50.00
Chemists	5.129	100.00
Chemists, assistants	2.470	
Change house men	1.778	
Pipemen	2.158	
Diamond drill setters	3.896	

	Rate per day	Rate per month
Diamond drill runners	3.000	
Diamond drill helpers	2.253	
Coal wheelers	1.820	
Steam shovel engineers	5.062	130.00
Steam shovel cranesmen	3.591	93.00
Steam shovel firemen	2.228	65.00
Steam shovel laborers	2.100	
Locomotive engineers	3.600	
Locomotive firemen	2.108	
Locomotive brakemen	2.275	
Locomotive engineers, narrow gauge. (Dinkey)	2.900	78.00
Locomotive brakemen, narrow gauge. (Dinkey)	2.000	
Track foremen	3.000	
Track laborers	2.000	
Dump foremen	2.719	
Dump laborers	2.000	
General surface laborers	2.007	
Total surface labor	\$2.505	\$79.625
Total, labor	\$2.438	\$82.408

Statement Showing Mines, Location, Company Operating and Names of Officers. Mines in St. Louis County, Minnesota. Year Ending June 30th 1906.

Mines Operating.	Mines Not Operating	Location.	Company Operating.	General Superintendent.	Superintendent.
Adams (U. G., Mfg., and Strip.)		Eveleth	Oliver Iron Mining Co.	J. H. Heardling	T. H. Davey.
Albany		Hibbing	Crete Mining Co.		Robt. Murray.
Agnew		Hibbing	International Harvester Co.		M. Trewella.
Alax		Biwabik	Alax Mining Co.	Geo. H. St. Clair	M. H. Wright.
Adriatic		Mesaba	Adriatic Mining Co.		William Mudge.
	Auburn	Virginia	Oliver Iron Mining Co.	J. S. Lutes	
Biwabik		Biwabik	Biwabik Mining Co.		A. F. Maitland.
Brunt		Mountain Iron	Rhodes Mining Co.	C. T. Fairbairn, Gen. Mgr.	C. S. Simpson.
Bessemer		Hibbing	Republic Iron & Steel Co.	W. J. West.	A. F. Maitland.
Burt		Biwabik	Oliver Iron Mining Co.	W. P. Chinn.	Chas. Trezona.
Bangor		Ely	Bangor Mining Co.	Chas. Trezona.	W. Bayliss.
Chandler		Chisholm	Oliver Iron Mining Co.	W. J. West.	R. J. Mitchell.
Clark		Chisholm	Oliver Iron Mining Co.	W. P. Chinn.	W. P. Chinn.
Chisholm		McKinley	Corsica Iron Co.		E. D. McNeil.
Corsica		Virginia	Inter-State Iron Co.		A. F. Maitland.
	Columbia	Virginia	Commodore Mining Co.		Frank Thomas.
Commodore		Virginia	Croxton Mining Co.		W. P. Chinn.
Croxton		Biwabik	Cass Mining Co.		W. P. Chinn.
Cass		Hibbing	Oliver Iron Mining Co.		G. H. Dormer.
Cyprus		Biwabik	Hobart Iron Co.	W. P. Chinn	W. Carmichael.
Duluth		McKinley	Hobart Iron Co.	W. P. Chinn	W. P. Chinn.
Elba		Eveleth	Oliver Iron Mining Co.	C. R. Trezona.	G. H. Dormer.
	Franklin & Union.	Virginia	Republic Iron & Steel Co.	C. T. Fairbairn.	
Fayal (U. G., Surface and Mfg.		Buhl	Consumers' Ore Co.	J. R. Thompson.	C. E. Hendricks.
	Franklin (Closed Jan. 1.)	Chisholm	Oliver Iron Mining Co.	W. J. West.	W. Bayliss.
Glen		Chisholm	Oliver Iron Mining Co.		A. J. Sullivan.
Genoa		Sparta	Inter-State Iron Co.	Thos. Pellow	A. B. Holley.
Grant		Buhl	Oliver Iron Mining Co.	W. J. West.	W. M. Tappan.
Hull		Hibbing	Oliver Iron Mining Co.	W. J. West.	W. M. Tappan.
Hull-Rust		Hibbing	Oliver Iron Mining Co.	W. J. West.	John Gill.
Higgins No. 2		Virginia	Oliver Iron Mining Co.	M. S. Hawkins.	A. Y. Peterson.
Hartley		Chisholm	Oliver Iron Mining Co.	W. J. West.	A. F. Maitland.
Hobart		Sparta	Hobart Ore Co.	Geo. H. St. Clair	M. H. Wright.
Hector (Hale)		Biwabik	Hector Iron Co.		J. S. Rayburn.
Holland		Biwabik	Swallow & Hopkins	G. L. Woodworth	R. A. Angst.
Ironquels		Mountain Iron	Rogers Iron Mining Co.		E. D. McNeil.
Jordon		Chisholm	Corrigan-McKinney & Co.	C. T. Fairbairn	
Kinney		Buhl	Republic Iron & Steel Co.	Thos. Pellow	E. S. Tillinghast.
Leetonia		Hibbing	Inter-State Iron Co.	Thos. Pellow	Thos. Pellow.
Lincoln		Virginia	Inter-State Iron Co.		

La Belle	Longyear	McKinley	Pitt Iron Mining Co.	C. E. Moore.	A. L. Hearn.
Leonard	Hibbing	Hibbing	Inter-State Iron Co.	Thos. Fellow	T. R. Philbin.
Leonard	Chisholm	Chisholm	Leonard Iron Mining Co.	W. J. West.	William Wearin.
Monroe-Tener	Hibbing	Hibbing	Winfred Iron Mining Co.	W. J. West.	R. J. Mitchell.
Morris	Chisholm	Chisholm	Oliver Iron Mining Co.	W. J. West.	John McDowell.
Myers	Chisholm	Chisholm	Oliver Iron Mining Co.	M. S. Hawkins.	A. Y. Peterson.
Mountain Iron	Chisholm	Chisholm	Oliver Iron Mining Co.	W. F. Chinn.	F. R. Mott.
Minoreca	Virginia	Virginia	Hobart Iron Co.	W. F. Chinn.	Joseph Roskilly.
Mohawk	Aurora	Aurora	Mohawk Mining Co.	W. F. Chinn.	A. McDougal.
Miller	Sparta	Sparta	Malta Iron Co.	C. E. Moore.	Thos. Nichols.
Mahoning	Hibbing	Hibbing	Pitt Iron Mining Co.	W. C. Agnew, Gen. Mgr.	J. W. Lang.
Meadow	Aurora	Aurora	Mahoning Ore & Steel Co.	Thos. Fellow	William White.
Morrow	Hibbing	Hibbing	Inter-State Iron Co.	A. B. Coats.	Joseph Thomas.
Mayas	Masaba	Masaba	Bradford Mining Co.	Chas. Trezona.	Chas. Anderson.
Nassau	Hibbing	Hibbing	Nassau Ore Co.	W. J. West.	A. F. Matland.
Pioneer	Ely	Ely	Oliver Iron Mining Co.	Oscar B. Warren.	Chas. Grabowsky.
Pillsbury	Hibbing	Hibbing	Republic Iron & Steel Co.	W. J. West.	W. Bayliss.
Pettit	Sparta	Sparta	Meriden Iron Co.	M. S. Hawkins.	W. M. Tappan.
Peerce	Chisholm	Chisholm	Oliver Iron Mining Co.	J. H. Harding.	T. H. Davey.
Rust	Colby	Colby	Oliver Iron Mining Co.	W. J. West.	C. S. Simpson.
Stephens	Eveleth	Eveleth	Oliver Iron Mining Co.	W. J. West.	A. McDougal.
Spruce	Hibbing	Hibbing	Oliver Iron Mining Co.	W. J. West.	G. E. Harrison.
Sellers (Underground and strip)	Chisholm	Chisholm	Syracuse Mining Co.	W. P. Chinn.	Robt. A. Angst.
St. Clair	Biwabik	Biwabik	Hobart Iron Co.	G. L. Woodworth.	
Sparta (Closed Oct.)	Hibbing	Hibbing	Stevenson Iron Mining Co.	D. C. Peacock.	
Susquehanna	Hibbing	Hibbing	Buffalo & Susquehanna Iron Co.		
Shenango	Chisholm	Chisholm	Shenango Furnace Co.		
Scranton	Hibbing	Hibbing	Scranton Mining Co.		
Saunty	Virginia	Virginia	Oliver Iron Mining Co.		
Sharon	Buhl	Buhl	Oliver Iron Mining Co.		
Soudan	Tower	Tower	Oliver Iron Mining Co.		
Savoy-Sibley	Ely	Ely	Tesora Mining Co.	Chas. Trezona.	Chas. Trezona.
Tesora	Virginia	Virginia	Oliver Iron Mining Co.	N. Cowling.	N. Cowling.
Troy	Eveleth	Eveleth	Oliver Iron Mining Co.	M. L. Fay, Gen. Mgr.	Harry Tegillis.
Utica	Hibbing	Hibbing	Crete Mining Co.	W. P. Chinn.	W. P. Chinn.
Virginia (Oliver)	Virginia	Virginia	Oliver Iron Mining Co.	M. S. Hawkins.	Robt. Murray.
Victoria	Virginia	Virginia	Republic Iron & Steel Co.	C. T. Fairbairn.	John Gill.
Winfred	Hibbing	Hibbing	Republic Iron & Steel Co.	W. J. West.	
Willis (Closed Nov.)	McKinley	McKinley	Republic Iron & Steel Co.	C. E. Moore.	J. A. Campbell.
Wacootah	Mountain	Mountain	Pitt Iron Mining Co.	D. C. Peacock.	G. N. McKenzie.
Webb	Hibbing	Hibbing	Shenango Furnace Co.	C. E. Moore.	C. E. Hendricks.
Williams	Biwabik	Biwabik	Williams Mine Co.	J. R. Thompson.	N. Cowling.
Yates	Buhl	Buhl	Consumers Ore Co.	Pickands-Mather & Co., and Joseph Sellwood.	
Zenth	Ely	Ely	Oliver Iron Mining Co.		
Total			Jennings Bros.		
Jennings.					

Statement Showing Shipments from Mines and Average Number of Men Employed Year Ending June 30th, 1906. Mines of St. Louis County Minnesota.

Mine	Shipment from mines July 1st, 1905 to June 30th, 1906	Average Number of Men											
		1905						1906					
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June
Chandler (Vermillion Range).....	334,483	220.1	217.7	207.9	207.9	203.5	200.3	218.0	204.3	219.1	190.8	207.3	196.9
Pioneer (Vermillion Range).....	661,573	481.0	471.9	461.5	450.6	467.6	461.6	508.8	517.6	520.1	478.5	483.7	423.8
Savoy (Vermillion Range).....	366,507	183.2	177.5	172.1	165.7	181.1	179.4	189.9	197.6	196.3	181.1	184.7	188.1
Soudan (Vermillion Range).....	184,458	306.1	299.7	267.0	269.3	285.2	256.5	284.7	284.7	272.8	238.7	243.9	246.7
Zenith (Vermillion Range).....	145,743	119.0	106.6	103.8	114.1	104.8	96.0	107.6	121.8	131.4	160.3	184.0	188.2
Burt (Mesaba Range).....	1,633,026	212.9	200.2	222.5	194.8	176.6	76.0	71.4	72.9	135.0	188.4	201.2	283.3
Clark (Mesaba Range).....	337,014	149.6	137.0	139.1	154.0	130.5	130.6	126.6	133.2	152.2	158.2	169.8	193.4
Chisholm (Mesaba Range).....	271,733	130.5	121.1	148.3	140.9	173.3	186.9	187.6	181.4	181.5	175.1	184.3	169.8
Glen (Mesaba Range).....	216,278	146.4	113.9	121.3	130.1	133.8	139.8	151.6	155.5	156.9	134.6	153.0	136.8
Hull (Mesaba Range).....	221,401	90.2	84.9	148.8	155.7	177.0	227.2	232.5	227.7	228.5	222.3	214.9	176.0
Hull-Rust (Mesaba Range).....	405,843	170.7	201.2	236.3	233.6	233.9	258.3	315.8	268.2	315.4	81.6	113.8	139.0
Hull-Rust (stripping).....	182,088	372.9	379.3	383.6	382.2	263.6	202.9	208.2	236.4	350.6	315.9	440.3	424.9
Monroe-Tener.....	251,930	161.0	173.7	173.7	159.1	162.4	46.6	45.4	40.7	37.5	264.8	309.2	301.1
Morris.....	1,463,898	107.3	126.6	131.5	124.2	136.6	136.2	161.8	148.8	158.5	152.8	273.0	254.5
Myers.....	221,202	107.3	126.6	131.5	124.2	136.6	136.2	161.8	148.8	158.5	152.8	273.0	254.5
Pillsbury.....	127,758	75.8	82.7	71.4	65.0	46.2	24.4	5.1	5.6	8.7	10.0	27.5	47.3
Rust.....	112.2	121.7	138.5	142.1	149.4	149.4	148.6	150.7	151.9	151.2	127.1	131.7	111.7
St. Clair.....	61,792	27.0	13.6	6.7	3.1	5.5	3.3	6.7	1.2	1.1	1.3	1.2	1.2
Sellers.....	380,781	183.6	199.8	194.0	157.7	167.9	148.6	158.2	167.7	150.9	165.0	176.0	142.3
Sellers (stripping).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	63.2
Higgins No. 2.....	268,240	138.8	147.3	164.2	181.0	165.0	116.4	107.3	122.5	145.7	219.5	220.1	245.2
Mountain Iron.....	2,286,089	545.8	580.7	597.4	512.9	443.0	388.3	392.3	354.8	428.4	622.7	801.5	910.5
Virginia (Olivier).....	272,318	93.6	104.1	93.6	82.7	96.8	86.0	93.0	93.2	118.8	166.2	27.5	37.5
Stephens.....	273,048	242.8	222.8	261.6	286.5	206.9	152.6	159.0	137.8	136.2	190.8	225.4	204.7
Adams (U. G.).....	829,866	617.9	598.4	639.6	698.9	740.1	796.6	816.4	823.4	844.3	634.6	611.9	594.1
Adams (stripping).....	.....	151.2	169.0	171.2	172.4	165.2	16.0	11.9	4.5	11.7	194.7	215.9	199.6
Adams (milling).....	283,639	102.4	97.5	107.0	113.0	83.4	24.6	4.4	2.4	2.4	17.1	16.4	100.0
Duluth.....	148,356	75.0	80.2	70.0	60.0	33.4	54.2	561.3	570.3	589.1	43.4	84.7	77.9
Fayal (U. G.).....	886,144	637.9	597.2	596.9	654.8	565.9	546.2	561.3	570.3	589.1	698.0	642.7	592.0
Fayal (surface).....	566,394	121.5	118.9	117.2	140.7	72.5	14.9	8.9	13.9	12.7	17.9	107.0	164.6

Genoa	287,976	"	"	131.4	127.4	123.5	124.1	133.9	140.3	128.5	122.4	130.8	125.4	144.1	140.8
Spruce	641,924	"	"	511.4	475.3	472.6	491.0	468.0	554.2	543.8	536.8	524.1	507.9	590.0	536.8
Auburn	"	"	"	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Winfred	"	"	"	17.3	15.8	"	21.7	21.9	19.4	22.2	22.1	24.3	28.3	25.2	18.6
Hartley (new mine)	"	"	"	"	"	"	"	"	"	33.0	56.7	77.5	128.0	266.2	286.7
Albaný	282,940	"	"	90.0	51.0	86.0	87.0	72.0	41.0	51.0	70.0	77.0	104.0	142.0	168.0
Bangor (new mine)	"	"	"	8.0	8.0	11.0	10.0	9.0	5.0	5.0	14.0	10.0	19.0	15.0	10.0
Corsica	26,980	"	"	107.0	109.0	107.0	109.0	110.0	98.0	146.0	136.0	146.0	73.0	80.0	100.0
Elba	215,812	"	"	137.0	108.0	107.0	109.0	110.0	98.0	146.0	136.0	146.0	133.0	164.0	138.0
Minorca	109,614	"	"	107.0	71.0	61.0	70.0	67.0	57.0	65.0	77.0	85.0	106.0	142.0	162.0
Malta	117,608	"	"	100.0	116.0	112.0	121.0	107.0	112.0	122.0	91.0	114.0	84.0	93.0	97.0
Mohawk	26,876	"	"	43.0	38.0	41.0	39.0	34.0	41.0	54.0	55.0	65.0	80.0	117.0	119.0
Syracuse (new mine)	"	"	"	7.0	21.0	13.0	9.0	15.0	20.0	16.0	16.0	18.0	12.0	13.9	16.0
Troy	119,675	"	"	103.0	108.0	103.0	90.0	98.0	100.0	122.0	126.0	124.0	110.0	110.0	106.0
Sparta (lease surrendered)	20,193	"	"	25.0	15.0	3.0	5.0	"	"	"	"	"	"	"	"
Utica	193,344	"	"	97.0	94.0	90.0	87.0	117.0	142.0	137.0	124.0	146.0	191.0	211.0	202.0
Bessemer	119,743	"	"	52.0	83.0	91.0	103.0	104.0	117.0	116.0	109.0	110.0	101.0	111.0	96.0
Franklin	22,663	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Kinney	79,810	"	"	73.0	74.0	60.0	43.0	46.0	38.0	17.0	8.0	12.0	63.0	142.0	130.0
Pettit	123,723	"	"	68.0	79.0	65.0	66.0	67.0	65.0	69.0	62.0	68.0	72.0	78.0	64.0
Victoria	16,068	"	"	"	"	"	"	"	"	29.0	26.0	29.0	24.0	59.0	84.0
Wills (ore stocked)	"	"	"	14.0	15.0	18.0	17.0	13.0	2.0	"	"	"	"	"	"
Commodore	275,055	7,100	"	223.0	196.0	216.0	197.0	177.0	179.0	205.0	172.0	184.0	166.0	179.0	165.0
Jordon	173,311	1,050	"	79.0	73.0	71.0	79.0	47.0	13.0	7.0	11.0	6.0	52.0	106.0	112.0
Stevenson	"	"	"	269.0	237.0	291.0	183.0	185.0	154.0	161.0	157.0	179.0	270.0	332.0	339.0
Columbia	1,350	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Grant	31,240	"	"	84.0	93.0	74.0	77.0	38.0	33.0	8.0	36.0	14.0	22.0	58.0	66.0
Lincoln	272,753	"	"	252.0	265.0	267.0	251.0	250.0	224.0	294.0	268.0	324.0	301.0	323.0	311.0
Lactonia	388,429	"	"	"	"	"	"	"	"	"	"	"	"	"	"
La Belle	37,452	"	"	84.0	78.0	63.0	54.0	49.0	52.0	49.0	46.0	49.0	47.0	53.0	51.0
Miller	165,110	"	"	156.0	168.0	168.0	165.0	167.0	164.0	203.0	205.0	190.0	184.0	205.0	216.0
Wacoatah (new mine)	"	"	"	"	"	"	"	6.0	16.0	10.0	14.0	18.0	17.0	62.0	80.0
Brunst (new mine)	5,634	"	"	146.0	157.0	131.0	143.0	108.0	78.0	75.0	8.0	28.0	50.0	48.0	63.0
Croxton	154,149	"	"	"	"	"	"	"	"	"	89.0	62.0	126.0	166.0	180.0
Hobart (new mine)	"	"	"	"	"	37.0	53.0	71.0	58.0	66.0	55.0	52.0	50.0	59.0	61.0
Nassau (new mine)	"	"	"	"	"	"	"	"	5.0	33.0	52.0	46.0	55.0	61.0	50.0
Iroquois	108,351	"	"	71.1	108.9	92.4	91.2	62.6	61.4	55.0	61.4	60.0	63.5	76.9	76.8
Susquehanna	4,312	"	"	13.1	32.6	60.2	55.0	49.2	63.5	40.6	46.0	61.0	63.4	76.3	84.6
Mahoning	968,628	"	"	176.0	167.0	152.0	127.0	129.0	120.0	96.0	98.0	121.0	200.0	266.0	280.0
Ajax (Kanawha)	35,418	"	"	144.0	162.0	120.0	110.0	126.0	72.0	23.0	22.0	19.0	110.0	121.0	93.0

TABLE E—Continued

Mine	Shipment from mines July 1st, 1905, to June 30th, 1906	Average Number of Men											
		1905						1906					
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June
Hector (Hale).....	14,366	161.0	196.0	145.0	116.0	108.0	59.0	51.0	50.0	90.0	196.0	197.0	195.0
Meadow (new mine).....		179.7	184.1	207.6	235.5	256.0	240.2	31.0	33.0	63.0	76.0	56.0	47.0
Shenango.....	188,090	80.4	114.8	117.3	119.7	113.2	110.7	239.0	294.6	301.0	241.8	239.5	253.7
Webb.....	124,506	240.0	193.0	177.0	174.0	180.0	183.0	107.5	123.3	116.9	111.1	121.9	105.9
Elwubik.....	985,412							167.0	23.0	27.0	137.0	136.0	187.0
Frantz.....	54,305	143.0	61.0	19.0	21.0	4.0	2.0						
Yates.....	83,409	106.0	116.0	103.0	123.0	132.0	190.0	206.0	200.0	195.9	224.0	175.0	183.0
Leonard.....	260,989	125.0	134.0	140.0	144.0	81.0	23.0	29.0	47.0	44.0	45.0	69.0	77.0
Holland.....	149,468	225.0	200.0	210.0	220.0	180.0	125.0	125.0	130.0	125.0	115.0	125.0	115.0
Laura.....	53,682	50.0	52.0	50.0	52.0	41.0	46.0	44.0	104.0	121.0	97.0	115.0	114.0
Pearce.....	32,033				2.6	17.5	51.9	58.6	71.5	68.8	66.4	68.6	65.9
Agnew.....	26,451	82.0	80.0	84.0	83.0	87.0	79.0	83.0	80.0	76.0	104.0	94.0	121.0
Adriatic (new mine).....													
Cass.....	46,231	54.0	56.0	69.0	60.0	45.0	35.0	39.0	41.0	14.0	42.0	68.0	66.0
Morrow.....	66,941	62.0	60.0	58.0	83.0	83.0	39.0	50.0	52.0	54.0	52.0	37.0	108.0
Cyprus.....	181,272										67.0	83.0	79.0
Mayas.....	23,574					8.0	10.0	12.0	12.0	20.0	40.0	60.0	65.0
Tenora.....							15.0	20.0	25.0	25.0	36.0	40.0	40.0
Williams.....												14.0	18.0

Number of men employed by stripping contractors.														
Drake & Stratton Company—														
Commodore Mine.....	436.0	422.0	422.0	422.0	451.0	69.0	129.0	134.0	131.0	121.0	113.0	156.0	179.0	
Fayal Mine.....	150.0	153.0	128.0	135.0	125.0	283.0	439.6	461.0	411.0	115.0	426.0	445.0	398.0	
Leonard Mine.....	414.0	459.0	358.0	332.0	297.0	125.0	360.0	396.0	419.0	460.0	544.0	484.0	456.0	
Morris Mine.....	261.0	187.0	132.0	111.0	147.0	147.0	185.0	163.0	128.0	123.0	306.0	443.0	402.0	
Stevenson Mine.....														
Butler Bros.—														
Cyprus Mine.....	111.0	106.0	96.0	66.0	92.0	42.0	25.0	24.0	51.0	88.0	91.0	92.0	81.0	
Leetonia Mine.....	112.0	106.0	97.0	92.0		66.0	43.0	25.0	25.0	52.0	88.0	91.0	81.0	
Jennings Mine.....														
Geer Contracting Company—														
Carl Hall & Company—						15.0	40.0		11.0	39.0	133.0	172.0	149.0	
Mayas Mine.....														
Porter Bros.—														
Burt-Pool	150.0	150.0	150.0	150.0	150.0	150.0	150.0	40.0	40.0	30.0	20.0	20.0	36.0	
Roberts-Kingston Company—														
Pillsbury	90.0	95.0	95.0	100.0	100.0	75.0	10.0	100.0	80.0	80.0	100.0	150.0	150.0	
Winston-Dear Company—														
Burt.....														
Iroquois.....	176.0	160.0	157.0	145.0	130.0	130.0	99.0	85.0	18.0	13.0	7.0	65.0	123.0	
Monroe-Tener	310.0	336.0	358.0	320.0	351.0	351.0	220.0	209.0	122.0	164.0	206.0	297.0	333.0	
Mahoning	129.0	147.0	194.0	183.0	134.0	134.0	130.0	56.0	33.0	84.0	130.0	172.0	165.0	
Total	13,069.7	13,007.8	12,782.2	12,430.8	11,937.6	10,944.8	11,327.6	10,983.7	11,484.4	13,658.9	16,298.4	16,134.4		

**STATEMENT SHOWING FATAL ACCIDENTS IN AND ABOUT
THE MINES OF ST. LOUIS COUNTY, MINNESOTA. FOR
THE YEAR ENDING JUNE 30, 1906.**

Dominick Siniti, a miner, was instantly killed at the Spruce Mine July 7th, 1905, by falling down the ladder road of the shaft. He was an Italian, thirty-five years old and married.

On July 22, 1905, Hjalmer Peterson, a coal passer, was instantly killed at the Drake & Stratton, stripping for the Fayal Mine, while loading coal on a stripping locomotive, which passed over him when struck by a train. He was a Finn, twenty-two years old, and single.

On July 24th, 1905, John Ohe, a steam shovel pit man, was instantly killed at the Pottit Mine, by suffocation, being overcome by a cave of ore, while working with the steam shovel loading from a stock pile. He was a Finn, thirty-nine years old and married.

On July 25, 1905, Emiel Danielson, a shift-boss at the Webb Mine, was fatally injured by falling from the station at main level to the bottom of the shaft. He was a Swede-Finn, thirty-five years old and married.

On July 26, 1905, Joe Tomatz, a shoveler, was instantly killed by a fall of ground at the Soudan Mine. He was an Austrian, forty-five years old and married.

On August 7th, 1905, John Ojala, a laborer at the Higgins Mine, was instantly killed by falling into a milling chute while trying to loosen the ore in it. He was a Finn, thirty-two years old and single.

On August 12th, 1905, Oscar Bloomfield, a brakeman at the Mahoning Mine, was fatally injured by being caught between a car and locomotive. He was a Swede-Finn, twenty-three years old and single.

On August 12th, 1905, Vasco Poawitch, a laborer at the Drake & Stratton Stripping for the Morris Mine, was fatally injured while shoveling dirt out of a car, by the car tipping over backwards and the door of it striking him on the head and shoulders. He was a Montonegron, thirty-five years old and single.

On August 14th, 1905, Charles W. Kulin, a laborer at the Stevenson Mine, was instantly killed while cleaning track at the steam shovel by empty cars being pushed into the steam shovel to be loaded. He was a German-American, twenty-eight years old and single.

On August 14th, 1905, Peter Burk, a foreman at the Winston & Deer Stripping for the Monroe-Tener Mine, was fatally injured by a rock falling from the stripping bank. He was a Swede, forty-one years old and single.

On August 15th, 1905, Anton Pheil, a laborer at the Mountain Iron Mine, was instantly killed by being struck by run-away coal cars. A coupling broke while an engine was taking them into the pit. He was a Finn, twenty-four years old and single.

On August 16th, 1905, Anton Parinko, a laborer at the Utica Mine Stripping, was instantly killed while assisting to dump the cars of a stripping train, one of the cars tipping back and catching him between the box and the truck. He was an Italian, thirty-two years old and married.

On August 30th, 1905, Byron Ferguson, a brakeman at the Hull-Rust Stripping, was fatally injured by being caught between the cars and locomotive. He was an American, thirty-nine years old and married.

On September 1st, 1905, Paul Stuganhor, a trackman at the Adams Stripping, was instantly killed by an approaching train, while cleaning the track. He was an Austrian, seventy-four years old and married.

On September 6th, 1905, Anton Jackovic, a timberman at the Albany Mine, was killed by suffocation while working in a chute, by loose ore which had stuck in the bottom of the chute sliding down and partly covering him. He was an Austrian, twenty-seven years old and married.

On September 6th, 1905, Philip Marochinic, head blaster at the Stephens Mine, was instantly killed by an explosion of power which had been wedged in a piece of iron pipe, previously used for loading holes. He was cutting off a piece of the pipe with a hammer and chisel. He was an Austrian, thirty years old and married.

On September 11th, 1905, John Pauha, a laborer at the Utica Mine Stripping, was instantly killed, while lying on the track at the dump, by an approaching stripping train. He was a Finn, fifty-three years old and married.

On September 18th, 1905, John Rajala, a trammer at the Commodore Mine, was instantly killed by a descending skip at the collar of the shaft. He attempted to cross the skip road from the ladder road as he was leaving the shaft. He was a Finn, twenty-three years old and single.

On October 3rd, 1905, Gust Almquist, a brakeman for the Drake & Stratton Stripping at the Leonard Mine, was killed by falling between pusher engine and cars which he was attempting to couple while they were going out of the pit to the dump. He was a Swede, nineteen years old and single.

On November 10th, 1905, Joe Kurnsarie, a timberman at the Adams Mine, was instantly killed by falling into the timber shaft from the cage which was being hoisted to the surface. He was an Austrian, thirty years old and married.

On November 11th, 1905, Nick Vetromilla, a miner at the Bessemer Mine, was fatally injured while trying to get on moving timber cage; was caught between shaft, timbers and cage. He was an Italian, twenty-two years old and single.

On November 15th, 1905, Charley Grandon, a pocketman at the Croxton Mine, was fatally injured by the brake stick slipping and letting him fall in front of the moving car which he was dropping down from the pocket. He was a Finn, twenty-five years old and married.

On November 15th, 1905, Cianfichi Vincenzo, a miner at the Webb Mine, was instantly killed by a fall of ground. He was standing on a car lifting timber to his partner when the ground fell. He was an Italian, twenty-eight years old and married.

On November 21st, 1905, Peter Pignatelli, a trammer at the Spruce Mine, was instantly killed by falling down the shaft with a car of ore which he and his partner had trammed to the shaft, thinking the cage was there in place. He was an Italian, thirty-five years old and married.

On December 5th, 1905, John Anderson, a pocketman at the Fayal Mine, was instantly killed while trying to stop a moving car by placing a crow bar in front of a wheel. The car climbed the bar and crushed him to the ground. He was Swede, eighteen years old and single.

On December 6th, 1905, T. Varke, a laborer at the Agnew Mine Stripping, was fatally injured while walking on the track leading to the dump, by being struck by an empty train returning to the pit. He was an Italian, twenty-nine years old and married.

On December 8th, 1905, Jacob B. Furtney, a locomotive engineer at the Biwabik Mine, was fatally injured by frozen chunks of dirt sliding from the stripping bank and breaking through the locomotive cab and catching him between the boiler and reversing apparatus. He was a Canadian, sixty-one years old and married.

On December 18th, 1905, Christian Kaskela, a laborer at the Morris Mine, was instantly killed by the explosion of powder in a powder heater which he was handling near a fire. He was a Finn, twenty-eight years old and single.

On December 19th, 1905, Ike Jackson, a miner at the Commodore Mine, was fatally injured by falling down the ladder road of a raise. He was a Finn, twenty-two years old, single.

On December 30th, 1905, John Hunkala, a miner at Monroe-Tenor Mine, was instantly killed by a fall of ground from the back of the drift while putting up timber. He was a Finn, thirty-three years old and married.

Gus Kangas, a miner working with Honkala, was instantly killed in the same manner. He was a Finn, twenty-six years old and single.

On December 30th, 1905, Oscar Erickson a brakeman at the Porter Bro's. Stripping for the Burt Mine, was instantly killed by being run over by a stripping locomotive, having fallen in front of it while attempting to jump from it to the pusher engine which had just been uncoupled and was leading away from the locomotive. He was a Swede, twenty-six years old and single.

On December 30th, 1905, Mikalo Hockinovic, a laborer at the Hull-Rust Stripping was fatally injured while helping to replace a dump car on the track by being caught between the draw heads of the car off the track and a stripping train loading at the shovel. He was an Austrian, thirty-one years old and married.

On January 17th, 1906, John Sarila, a timber lander at the Shenango Mine, was instantly killed by falling into the timber shaft while lowering timber. He was a Finn, thirty years old and married.

On January 17th, 1906, Dominick Bunda, a laborer at the Hull-Rust Stripping, was instantly killed by being run over by a stripping train. His work was cleaning snow from the track. He was an Italian, fifty years old and single.

On January 20th, 1906, Edward Penglase, a boy at the Drake & Stratton Stripping for the Morris Mine, not in the employ of the company, was fatally injured by being caught between the bumpers of two stripping locomotives. He was an American, fifteen years old.

On January 23rd, 1906, Joe Berlotic, a trammer at the Adams Mine, was fatally injured by a fall of ground from the back of the drift. He was an Austrian, twenty-four years old and single.

On January 24th, 1906, Hjalmer Hill, a trackman for the Drake & Stratton Stripping at the Fayal Mine, was fatally injured by falling over the ore bank into the milling pit, he having slipped while cleaning ice from the track at the water tank. He was a Finn, thirty-two years old and single.

On January 25th, 1906, Frank Klun, a miner at the Spruce Mine, was instantly killed by a fall of ground from the back of the drift while picking it down. He was an Austrian, twenty-five years old and married.

On January 26th, 1906, Jacob Valder, a miner at the Commodore Mine, was instantly killed by a cave of ore breaking the timber over his head and covering him. He was a Finn, twenty-eight years old and single.

On January 29th, 1906, Matt Lakkanan, a miner at Soudan Mine, (power drill helper) was instantly killed by a fall of ground from the side of a stope into which he and his partner were drilling for a blast. He was a Finn, thirty-two years old and married. Also known at Matt Lucrella.

On January 31st, 1906, Albert Rigg, a skip tender at the Mohawk Mine, was fatally injured, while cleaning out the skip pit, by a chunk of frozen ore falling down the shaft and striking him on the back. He was English, twenty-two years old and single.

On February 1st, 1906, Andrew Kirkanen, miner at the Meyers Mine, was instantly killed by a fall of ground from the side of a pillar, breaking through the lagging and covering him. He was a Finn, twenty-eight years old and single.

On February 1st, 1906, Sam Kokko, a steam shovel pit man at the Hull-Rust Stripping, was fatally injured by being thrown into the gearing of the steam shovel while helping to re-wrap a repaired hoisting chain on the drum. As the chain dropped into place the bar he was using twisted and threw him. He was a Finn, thirty-five years old and married.

On February 14th, 1906, Victor Santti, a brakeman for the Drake & Stratton Stripping Company, at the Fayal Mine, was instantly killed by being run over with a water tank car. The tank was between a loaded and a helping train and on reaching the top of the grade Santti uncoupled the helping train which pulled out of the way, when, for a purpose unknown, he stepped in front of the tank car. He was a Finn, twenty years old and single.

On February 14th, 1906, Hjalmer Nordstrom, a blaster for the Drake & Stratton Company, at the Fayal Mine, was instantly killed by a rock thrown from a blast. He was a Swede-Finn, twenty-two years old and single.

On February 14th, 1906, Andrew Preatto (Priятolj), a miner at the Chandler Mine, was fatally injured by being hit on the head by a rock from a blast. At first the injury was considered slight but he died on the 13th of March. Inner table of skull fractured. He was an Austrian, twenty-three years old and married.

On February 19th, 1906, John Honganon, a miner at the Clark Mine, was instantly killed by a boulder falling down the shaft, it having slipped from the hands of the men at the windlass after it was hoisted to the surface. He was a Finn, thirty years old and single.

On February 21st, 1906, James Santo, a trammer at the Spruce Mine, was instantly killed while riding on a timber cage partly loaded with lagging. He was thrown against the shaft timbers by the lagging falling forward and stopping the cage and causing him to fall to the bottom of the shaft. He was an Italian, forty-five years old and married.

On February 27th, 1906, Peter Somiowka, a swamper at the Commodore Mine, was instantly killed by being struck by a runaway team while walking behind a wagon, on the road from Buhl to Virginia. The runaway team came from behind and was loaded with logs. He was a Pollock, forty-three years old and single.

On March 7th, 1906, Jacob Koski, a laborer at the Sellers Mine, was fatally injured by falling into a timber shaft. While arranging some logging to lower it, in some manner lost his balance. He was a Finn, twenty-three years old and single.

On March 16th, 1906, Matt Yernatich, Edward Kukkola and Andrew Williams, shovelers at the Soudan Mine, were instantly killed by a fall of ground from the pillar of a stope in which they were working. Matt Yernatich was an Austrian, forty-one years old and married. Edward Kukkalalo was a Finn, thirty years old and single. Andrew Williams was a Finn, eighteen years old and single.

On March 19th, 1906, Jacob Johnson, a track man, was fatally injured by a rock thrown from a blast. The rock was supposed to have come from the stripping blast. He was a Swede-Finn, forty-five years old and married.

On March 22nd, 1906, Erick Hougard, a miner at the Fayal Mine, was instantly killed by a blast while delaying to light a fuse in another hole. He was a Finn, twenty-three years old and single.

On March 24th, 1906, Herman Ollila, a miner at the Higgins Mine, was instantly killed by a piece of rock falling out of the ore in the back of a square set room, where he was working, and crushing him against the timber. He was a Finn, twenty-five years old and single.

On March 25th, 1906, Andrew Koltianon was instantly killed by falling over the stripping bank at the Commodore Mine. He was not in the employ of the mine. He was a Finn, and married.

On March 31st, 1906, Ludviki Hoikilla, a miner at the Hobart Mine, was fatally injured by escaping steam from a broken pipe which he and his partners had broken while trying to lift it with a bar to make connections with a pump below. He was a Finn, thirty-three years old and single.

On April 5th, 1906, George Dinko, a puffer man and Steve Lucas, a motor man, at the Monroe-Tener Mine, were instantly killed. While Dinko was learning to run the motor on stock pile haulage he in some way ran it off the end of the trestle, and as it crashed through the motor house he and Lucas fell with it to the ground. George Dinko was a Hungarian, twenty-three years old and single. Steve Lucas was an Austrian-Polack, twenty-eight years old and married.

On April 6th, 1906, Walter Joki, a timber man at the Adams Mine, was found dead in an old unused drift where the air was bad from carbonic acid gas, which is supposed to have caused his death. He was a Finn, twenty-five years old and single.

On April 12th, 1906, Hjalmer Linna, an ore sampler at the Adams Mine, was fatally injured by falling between two loaded ore cars. The car on which he was climbing to take sample was backed up to by engine with other cars and the jar caused him to fall in front of the approaching cars. He was a Finn, twenty-four years old and married.

On April 20th, 1906, C. Wirtanen, a laborer at the Agnew Mine, was fatally injured by rocks thrown from a blast. When the warning had been given he delayed after his three partners had left. He was a Finn, thirty-three years old and married.

On April 20th, 1906, John McCarthy, a brakeman for the Drake & Stratton Company at the Morris Mine, was fatally injured by having his skull fractured between the boxes of two stripping cars. One of the cars was off the track and in trying to couple another car to it was caught. He was an American, eighteen years old and single.

On April 21st, 1906, Luke Begich (Lewis Bagage), a laborer at the Higgins Mine, was fatally injured while with nine other men was lifting a rail to let it fall to break off a three-foot piece, the rail having been previously cut around with a chisel. He sustained a fracture at the base of the skull. He was an Austrian, twenty-five years old and single.

On April 23rd, 1906, Anton Adamich, a pocketman at the Mohawk Mine, was fatally injured while dropping a loaded ore car down from the shaft pocket, by the brake stick breaking while he was tightening the brake on front end of the car, letting him fall on the track in front of the moving car. He was an Austrian, thirty-one years old and single.

On April 26th, 1906, John Lauts, a driller and blaster at the Hull-Rust Stripping, was fatally injured by a blast of ten sticks of dynamite in a "gopher" hole which he fired by means of an electric battery at a short distance from the opening of the hole. He was a Finn, thirty years old and married.

On April 28th, 1906, Joe Kotze, a miner at the Sibley Mine, was instantly killed by a fall of ground breaking the timber above him. Where he stood was where he had worked the day before and as this place was completed he was waiting for the shift boss to give him a new place. He was an Austrian, twenty-four years old and single.

On May 7th, 1906, Gus Fant, a miner at the Hobart Mine, was fatally injured by falling from a platform in the lower part of the shaft to the bottom of the shaft. A bucket, which contained repairs for a pump, and for which he and the master mechanic were waiting, was being lowered a little faster than usual, and striking the platform on which they were standing broke it and caused, as it is supposed, a piece of broken plank to knock Fant into the shaft, where he fell on the bucket, sustaining injuries which proved fatal. He was a Finn, twenty-five years old and single.

On May 11th, 1906, Marvin Jedlowski, a miner at the Lincoln Mine, was instantly killed by a premature blast. He was a Polack, thirty-seven years old and married.

On May 28th, 1906, Joe Lazar, a miner at the Shenango Mine, was instantly killed by a cave of ground while preparing to put up timber. He was an Austrian, thirty-eight years old and married. Also known as Joe Sandaw.

On May 27th, 1906, George Thompson, a brakeman for the Hector Mine, was instantly killed while riding on the foot-board of a stripping locomotive, which was approaching the steam shovel with empty cars, by being struck with the dipper of the steam shovel which was throwing water across the loading track. He was Scandinavian, twenty-one years old and single.

On May 30th, 1906, Frank Kochorar, a skip tender at the Mohawk Mine, was instantly killed by falling from the skip at the station at the main level into the skip pit and crushing his skull. He tried to board the skip, by stepping on its lip, after he rang to the engineer to hoist, but losing his balance fell backward. He was an Austrian, thirty-one years old and married.

On June 5th, 1906, Lovi Amatt, a miner at the Monroe-Tener Mine, was suffocated by falling into a milling chute into which he was picking ore. He released the rope from around his body and was holding it with one hand and picking with the other, when the ore, before which he was standing, slid down, causing him to lose his grip on the rope. He was an Italian, twenty-six years old and married.

On June 9th, 1906, Philip Breda, a laborer for the Drake & Stratton Stripping Company at the Fayal Mine, was fatally injured by being struck by a stripping locomotive, which was coming out of the pit with a loaded train and a pusher engine. He was standing on the track when struck. He was an Italian, twenty-two years old and single.

On June 13th, 1906, William Jefferies, a brakeman at the Hull-Rust Stripping, was instantly killed by being run over by a stripping train. It is supposed that he fell under the cars while attempting to board them. Age and nationality unknown.

On June 15th, 1906, Raifel Cari and Joseph Fabich, the first a laborer and the latter a chore boy, at the Holland Mine, were instantly killed by a blast which Cari lit without the knowledge of the miner, and then after leaving, returned for some unknown purpose just in time to be caught by the blast. The miner was putting away the tools at the time, and on returning and seeing the fuse burning gave the usual alarm and took precaution to guard the drifts opening to the pit, he going one way and Cari the other. Fabich was not employed underground at the time and it is supposed that he happened to wander near the place as the hole went off. Cari was an Italian, thirty-five years old and married. Fabich was an American-Austrian, seventeen years old.

On June 15th, 1906, Louis Kalilander and Albin Viele, miners at the Webb Mine, were instantly killed by a cave of sand and ore breaking the timber and covering them. Kalilander was an Austrian, thirty-five years old and married. Viele was an Austrian twenty-two years old and single.

On June 26th, 1906, Steve Williams, Harry Crebo and Joseph Visitine, miners at the Monroe-Tener Mine, were killed while standing near a raise, by a cave of ore, supposed to have been loosened by a blast in the milling pit on surface. The lower part of this raise Crebo and Williams were using for a chute. It is not known why Visitine was with these men at the time because his place of work was in another part of the mine. Williams was an Englishman, and single, fifty-five years old. Crebo was an Englishman, thirty-five years old and single. Visitine was an Austrian, forty years old and single.

On June 28th, 1906, Isaac Mattson, John Halbos, Hjalmer Erickson, Abraham Vaara, Oscar Carlson and Valentine Puhek, miners at the Mohawk Mine, were all killed at about the same time by an explosion of powder in a sub-level where they were working. All six bodies were found near the ladder road which was in a divided raise. One of the bodies, that of Oscar Carlson, was dismembered, and it is probable that he received the direct force of the explosion. It is probable that the other men died of suffocation, caused by the fumes, as their bodies were not mutilated. The powder supply boxes were kept in the end of an unused drift a considerable distance from the working places, but a short distance from the ladder road and chute which, being covered the timbers thrown down by the explosion, to-

gether with darkness and the fumes cut off all possibility of escape down the ladder road. There were two other chutes, near the working places, which were unused at the time, and which were about thirty feet long. Mattson was twenty-five years old, Halbos thirty-two, Erickson twenty-one, Vaara twenty-one and Carlson twenty-three, all Finn, and single. Puhek was an Austrian, age and family unknown.

On June 30th, 1906, William Chappel, a steam shovel fireman, Lloyd May, a water boy, James Sullivan, a brakeman, and Fred Rinda, a pitman, were instantly killed by five loaded ore cars that were set out on a siding in the Duluth & Iron Range Yard, running away down the grade into the pit and crashing into the back end of the steam shovel. Rinda was working under the steam shovel at the time; and the others were in the fireman's cab. These men were in the employ of the Drake & Stratton Company at the Fayal Mine. These ore cars were placed on the siding by the train crew who were employes of the Fayal Mine, and it is not known how they were started down the grade, for when they were left on the siding two brakes were set. It was the custom to use this siding for the loaded cars as they were pulled from the pit, until a sufficient number had been set out to make a train. William Chappel was twenty-two years old, Lloyd May fourteen years old, James Sullivan, age unknown, all were Americans and single. Fred Rinda was a Finn, age unknown and single.

On December 25th, 1905, Gust Senpti was killed, as it is supposed, by falling down the pumping shaft at the Mountain Iron Mine. He was not employed at the mine and was seen in an intoxicated condition a short time before the accident. He was a Finn, twenty-four years old and single.

John Peterson, injured June 30th, died July 30th, reported with non-fatalities.

**STATEMENT SHOWING NON-FATAL ACCIDENTS IN AND
ABOUT THE MINES OF ST. LOUIS COUNTY, MIN-
NESOTA, FOR THE YEAR ENDING JUNE 30, 1906.**

On July 7th, 1906, John Vollala, a trammer at the Spruce Mine, sustained a broken leg by being struck and caused to fall, by Dominick Siniti, who first fell away in the shaft ladder road and who was killed by falling. He was an Italian, thirty years old and married.

On July 18th, 1905, Dominick Mieno, a pitman at the Mountain Iron Mine, had his skull fractured by being struck with a steam shovel hoisting chain. He was standing on the boom of the steam shovel assisting to pull in the broken chain with a rope, when the rope untied, letting the chain slip. He was an Italian thirty-five years old and single.

On July 25th, 1905, Joseph Pete and Sam Marinell, pitmen for the Wallace Contracting Company, each sustained a broken leg while assisting to replace a sheave on a steam shovel, by the engines moving and catching them. Pete was thirty years old and Marinell twenty-eight; both single.

On July 25th, 1905, Jack Hakkinen, a laborer at the Morris Mine, sustained a broken leg while working on a car of ore which was struck by an engine causing him to fall. He was a Finn, twenty-eight years old and married.

On August 5th, 1905, Joe Belucci, a miner at the Fayal Mine, sustained a broken leg by a fall of ground from the back of the drift. He was an Italian, forty-five years old and married.

On August 30th, 1905, Joseph Venderben, a miner at the Hull Mine, was helping his partner to put up timber, after a blast, when a chunk of ore fell from the side of the drift, breaking both of his legs.

On August 29th, 1905, John Hildebrand, a miner at the Hobart Mine, was helping to pull a timber to the shaft to send it down, when the timber hook slipped, causing him to fall forward into the ladder road of the shaft. He sustained a fracture of the skull. He was a German, thirty-six years old and single.

On September 15th, 1905, Andrew Salmo, a laborer at the Leonard Mine, was standing just a little ahead of the steam shovel and near the bank, when suddenly the bank caved covering him to the hips. His right leg was broken. He was a Finn, forty-five years old and married.

On September 27th, 1905, John Morwar, a miner at the Pioneer Mine, was blasting six holes and just as he lit the last fuse one of the first holes exploded, fracturing his right hand, and necessitating amputating above the wrist. He was an Austrian, thirty-three years old and married.

On October 3rd, 1905, Edward M. Day, a brakeman at the Morris Mine, had his left foot and ankle crushed by a car running over it. He stepped between two cars to uncouple them, which he did, but on releasing the angle cocks the cars moved a short distance catching his foot. He was an Englishman, twenty-seven years old and married.

On October 7th, 1905, John Maggar, a trammer at the Adams Mine, sustained a fractured leg by a chunk of ore rolling on him. He was an Austrian, twenty-seven years old and married.

On October 7th, 1905, Esau Macki, a miner at the Pioneer Mine, sustained a loss of both eyes from a blast. He and his partner fired three holes. Upon hearing two reports he went back to fire the third hole thinking it had missed, and just as he reached the place the hole exploded. He was a Finn, thirty-four years old and married.

On October 12th, 1905, Nick Wada, a miner at the Lincoln Mine, sustained the loss of both eyes while springing a hole previous to putting in the main blast. He was pushing into a hole a short piece of powder to which was attached a short piece of lighted fuse, when it exploded, causing the tamping stick to be blown from his hands, and entering the socket of the left eye penetrated his head. He was a Finn, twenty-two years old and single.

On October 12th, 1905, Carl Heskinen, a miner at the Chisholm Mine, had his left leg broken above the knee by a chunk of ore falling from the back of the drift and striking him while he was picking the ground to make room for timber. He was a Finn, thirty-five years old and single.

On October 18th, 1905, Joe Roberts, a miner at the Shenango Mine, was seriously injured while at work sinking a new shaft. Without signaling to the engineer he and his partner got on the bucket at the collar of the shaft, when it immediately began to lower rapidly, and before the engineer could check it, it reached the bottom of the shaft, causing the accident.

On November 2nd, 1905, John Kowl, a laborer for Porter Bros., at the Burt Mine, was seriously injured while working with three men cleaning the track, by being struck by an empty stripping train which was returning after helping a loaded train up the grade out of the pit. He was a Finn, thirty-five years old and single.

On November 6th, 1905, Joe Laboda, a miner at the Fayal Mine, had his left foot crushed so that amputation was necessary. He and his partner were cleaning up the bottom of the drift when a slab of ore fell from the back injuring him. He is an Austrian, twenty years old and single.

On November 21st, 1905, Frank Vessel, a miner at the Genoa Mine, sustained a fracture of the leg by a slab of ore sliding from the side of the drift and catching him. He is an Austrian, twenty years old and single.

On November 23rd, 1905, Alberto Lucci, a miner at the Fayal Mine, was sitting on the ground turning a drill for his partner when a slab of ore fell from the back of the drift striking him and breaking one leg. He is an Italian, twenty-four years old and single.

On November 27th, 1905, Andrew Barker and John Mickola, pitmen at the Jordan Mine, were eating dinner in the steam shovel, when the bank caved, demolishing the shovel and fracturing Mickola's right leg and breaking Barker's left leg. Both are Polacks, twenty-two years old and single.

On December 9th, 1905, Jerry Zupons, a miner and trammer at the Fayal Mine, had his leg broken and his spine injured by a fall of ground from the back of the drift. At the time he was hurt he was picking down the ore. He is an Austrian, forty-two years old and married.

On December 15th, 1905, Frank Pauline, a miner at the Shenango Mine, sustained a fracture of the hip by being caught between tram car and timber while tramping a car of ore. He is an Austrian, thirty-five years old and married.

On December 19th, 1905, Jack Hill, a miner at the Adams Mine, had his left leg fractured above the knee by a fall of ground from the back of the drift. He is a Finn, twenty-eight years old and married.

On December 21st, 1905, John E. Doane, a brakeman for the Drake & Stratton Company at the Morris Mine, had his hip broken by being struck by a stripping train as he was crossing the track. He had been discharged a short time before for being under the influence of liquor. He is an American, twenty-three years old and single.

On December 29th, 1905, John Erickson, an engineer on stock pile haulage at the Adams Mine, had his right leg broken, and otherwise injured, by being dragged off the trestle by the rope of the car. The car was off the track and while he and others were trying to put it on, it in some way fell off the trestle. He is a Finn, thirty-three years old and married.

On January 17th, 1906, Norman Martinson, a draughtsman at the Burt Mine, had his leg broken and was otherwise injured by falling down a test pit which was covered with snow. He was trying to locate the test pit at the time. He is an American, twenty years old and single.

On January 19th, 1906, Anton Rehac, a miner at the Miller Mine, had his right leg broken by falling into a chute. He and his partner were going up for dinner when their candles were blown out by a blast in another part of the mine. Rehac ran back in the darkness and in doing so fell into a chute. He is an Austrian, thirty years old and single.

On February 3rd, 1906, Elvin R. Berland, a chore man at the Hector Mine, was going to a spring for water, when he got off the trail and fell into a test pit which was covered with snow. His left ankle was dislocated and fractured. He is an American, twenty years old and single.

On February 17th, 1906, Martin McNally, a head blaster at the Stephens Mine, sustained serious injury to his eyes while shaking several holes. He missed his count and got over a hole just as it went off. He is an American, fifty years old and single.

On February 27th, 1906, John Santanrio, a laborer at the Mountain Iron Mine, had his left leg broken below the knee by the butt of a falling tree which he and his partner had just cut down, striking him. He is an Italian, age and family unknown.

On March 16th, 1906, Vernon James, a pumpman at the Monroe-Tener Mine, was caught between a car and pump, breaking his right leg. As the motor and car were passing the pump the car door caught the pump and threw the car off the track against James. He is an American, thirty-three years old and married.

On March 24th, 1906, Joe Kublik, a laborer at the Yates Mine, had his leg broken by being caught between the dipper of the steam shovel and a chunk of frozen dirt which he was rolling into it. He is a Polack, twenty-six years old and single.

On March 31st, 1906, John Heikilla and Matt Mattson, miners at the Hobart Mine, were seriously scalded by escaping steam from a pipe which they and their partner had broken while trying to lift it with a bar to make connections with a pump below. Both are Finns and single.

On April 3rd, 1906, Mike Kerovic, a miner at the Monroe-Tener Mine, had his leg broken by falling off the staging which had broken down by a cave of ore from the back of the room. He is an Austrian, twenty-four years old and single.

On April 4th, 1906, Fred Colombo, a timberman at the Fayal Mine, had his right foot and ankle crushed by a chunk of ore which he dislodged while picking to make room for a set of timber. He was an Italian, twenty-one years old and single.

On April 16th, 1906, John Olivet, a laborer at the Morris Mine, had his leg broken by a boulder rolling down the stripping bank. He is an Italian and single.

On April 26th, 1906, Salvatori Minelli, a pitman at the Mountain Iron Mine, had one leg cut off below the knee by falling under ore cars which started as he was in the act of climbing over them. He is an Italian, twenty-four years old and single.

On May 7th, 1906, Frank Robie, a miner at the Chisholm Mine, had his leg broken by being thrown from a staging which was broken down by a chunk of ore falling upon it. He is an Italian and married.

On May 11th, 1906, Andrew Buck, a miner at the Lincoln Mine, was seriously injured by a premature blast. He is a Polack, twenty-eight years old and married.

On May 15th, 1906, Dan Mackerage, a miner at the Shenango Mine, sustained a fracture of the ankle by falling through a chute. His light went out and being without matches started for the ladder road in the dark. He is an Austrian, thirty-two years old and married.

On May 21st, 1906, Jacob Jacobson, a miner at the Minorca Mine, had his spine fractured by a large piece of ore while he was attempting to replace timbers which had been blasted down. He is a Finn, twenty-four years old and married.

On May 28th, 1906, Valentine Kostrida, a trammer at the Minorca Mine, had his leg broken by a fall of ground from the back of the drift while helping to put up a set of timbers. He is a Polack, twenty-five years old and single.

On June 4th, 1906, George Smith, a dumpman at the Hull-Rust Stripping, had his arm cut off and was otherwise injured by being run over by three cars of a train while he was sleeping on the track. He is an Austrian and single.

On June 4th, 1906, Peter Matanich, a laborer at the Higgins Mine, had his back seriously injured by being struck by a rock which rolled from the side of the open pit. He is an Austrian and single.

On June 11th, 1906, Sako Kangas, a miner at the Corsica Mine, was seriously injured by a blast while cleaning out a hole which he thought had missed. His eyes were seriously injured and it was necessary to amputate his hand. He is a Finn, twenty-five years old and single.

On June 12th, 1906, Edward Lozzo, a brakeman at the Wacootah Mine, was seriously injured about the chest, back and shoulders by being caught between the bumpers of stripping cars. He is a Frenchman twenty-six years old and single.

On June 29th, 1906, John Juntila, a pitman for the Drake & Stratton Company at the Fayal Mine, was internally injured while cleaning out a steam shovel dipper, which was raised against the bank for that purpose, by the bank caving down and striking him. He is a Finn, thirty years old and single.

On June 30th, 1906, John Peterson, a brakeman for the Drake & Stratton Company at the Fayal Mine, was seriously scalded while working on a stripping locomotive which was tipped over by a cave in the old workings of the mine into which they were dumping the stripping. He is a Swede, twenty-two years old and single. Injuries proved fatal. Died August 30, 1906.

Census of Manufacturers

CENSUS OF MANUFACTURERS, 1905, MINNESOTA

Bulletin 46, 1906, of the Bureau of the Census Department of Commerce and Labor presents the results of the census of manufactures of Minnesota in 1905.

The statistical tables given in the bulletin have been condensed and rearranged for the purpose of reproduction in this report, for more detailed information the student being referred to the census bulletin itself.

Table 1 of this report presents manufacturing statistics for the entire state by specified industries; table 2 gives the same data for the municipalities of Duluth, Minneapolis and St. Paul, and in table 3 general summaries are given for the four municipalities—Mankato, St. Cloud, Stillwater and Winona; each of them having had in 1900 a population of at least 8,000, but under 20,000.

From table 1 it will be observed that in 1905 there were engaged in the state 4,756 establishments in manufacturing pursuits. The capital invested and composed of land, buildings, machinery, tools and implements and cash and sundries was \$184,903,271. There were enumerated 9,141 salaried officials, clerks, etc., and the average number of wage earners was 69,636 persons, or 60,886 men, 8,430 women and 320 children under 16 years of age.

The expenditure in salaries and wages amounted to \$44,875,985, of which sum 20.1 per cent went for salaries and 79.9 per cent for wages. Miscellaneous expenses, under which are enumerated rent of works, taxes, not including internal revenue, rent of offices, interest, etc., and contract work amounted to \$24,493,840 and the cost of materials used including mill supplies and freight, fuel and rent, power and heat, consumed \$207,000.087.

The value of products including custom work and repairing has been given at \$307,858,073.

From the above data it will be seen that the total expenditure for the year was consumed in the following manner: For salaries 3.3 per cent, for wages 12.8 per cent, for operating expenses 8.7 per cent and the cost of material represented 75.2 per cent of the total expenditure. The value of products represented 120.5 per cent of the capital invested and the four items of expenditure together represented 90.8 per cent of the total value of products; or salaries 2.9 per cent, wages 11.6 per cent, miscellaneous expenses 7.9 per cent and cost of material 68.4 per cent, leaving a margin equal to 15.1 per cent of the capital invested.

The progress in the manufacturing industries in our state since 1900 was as follows: Increase in establishments 16.1 per cent; increase in capital 38.9 per cent; increase in the number of salaried officials, clerks, etc., 38.0 per cent; increase in salaries 49.0 per cent; increase in average number of wage earners 1.0 per cent, increase in wages 17.1 per cent; increase in miscellaneous expenses 92.2 per cent; increase in cost of material used 40.1 per cent; increase in the value of products 37.6 per cent.

It is noteworthy that the census shows a decrease of 54.1 per cent in the number of children under 16 years of age; for the year 1900 there were reported 697 children as against 320 in 1905.

From table 4 the progress in manufactures since 1900 will be observed, the data referring to the entire state and the seven principal municipalities thereof. The bulletin contains the following review on this subject: "The proportion of the totals for the 7 municipalities to the totals for the state changed but slightly between 1900 and 1905. In 1905 the reports for the 7 municipalities showed 63.7 per cent of the number of wage earners and 63.8 per cent of amount paid in wages, while the percentages for 1900 were 58.2 and 59.2, respectively. In every other item the percentage for 1905 was slightly less than that for 1900, but in none of them did the difference exceed 5 per cent. The totals for the 7 cities increased as follows: Number of establishments, 237, or 14.5 per cent; capital, \$33,804,434, or 37.2 per cent; number of wage earners, 4,273, or 10.7 per cent; wages, \$4,747,080, or 26.2 per cent; miscellaneous expenses, \$7,603,178, or 87.3 per cent; cost of materials used, \$27,816,195, or 29 per cent; and value of products, \$42,564,559, or 29.7 per cent.

"A decrease of 12, or six-tenths of 1 per cent, in the number of wage earners, was reported for the city of Winona, but every other item for each city increased substantially. For the value of products the largest percentage of increase, 81.3 per cent, is shown for Mankato, and the smallest, 27.5 per cent, for St. Paul.

"Minneapolis, the largest city of the state, reported by far the largest value of products, the value amounting to \$121,593,120, or 39.5 per cent of the total value. From 1900 to 1905 the increases were as follows: Number of establishments, 88, or 11.2 per cent; capital, \$16,522,874, or 32.9 per cent; number of wage earners, 2,132, or 10.9 per cent; wages paid, \$2,076,981, or 22.1 per cent; cost of materials used, \$20,176,599, or 29.3 per cent; and value of products, \$27,185,346, or 28.8 per cent.

"Of the total value of manufactures in Minneapolis in 1905, the value of the flour and grist mill products formed 51.6 per cent, and in no other city in the world has this industry reached such proportions. The pre-eminence of Minneapolis in this industry is due to several causes, the principal one being the early utilization of the waterpower furnished by the Falls of St. Anthony, although the industry has advanced to such an extent that this large supply of power is insufficient for the operation of the mills and is supplemented by steam and other kinds of power. Moreover, the city has a contiguous and almost inexhaustible supply of the finest wheat in the world to draw upon. Other causes of the success of this industry in the city are that the newest and most modern methods and machinery are adopted in the mills and the prosperity of a few large establishments has no doubt been the incentive to others to engage in the same business. Other important industries of Minneapolis, as reported at the census of 1905, were those of lumber and timber products, planing mills, linseed oil, printing and publishing, foundry and machine shop products, and bread and other bakery products.

"The chief manufacturing industries of St. Paul, the second city of the state, were fur goods, printing and publishing, malt liquors, car construction and repairs by steam railroad companies, and boots and shoes. The percentage of increase in the value of products for St. Paul, 27.6, was but slightly less than that for Minneapolis, 28.8. For Duluth the increase in the value of products was 29.8 per cent, and the principal industries were lumber and timber products, malt liquors, flour and grist mill products, and iron and steel. The value of the products manufactured in Winona, the fourth city in importance, increased 30.5 per cent. The principal products for this city were flour and grist mill products, lumber and timber products, patent medicines, and carriages and wagons. Most of the large increase in the value of the products in Mankato was due to the growth in flour and grist mill products, the largest industry in the city."

Table 5 shows for the entire state and the seven principal municipalities the relation which each item of expenditure bears to the total expenditure, the relative per cent of the value of products to the capital invested, the per cent of each item of expenditure as represented in the value of products and the per cent which the value of products over and above expenses represents of the capital invested.

The 12 principal industries of the state ranked in the following order:

Flour and grist mill products; lumber and timber products; slaughtering and meat-packing; cheese and butter; printing and publishing; lumber, planing mill products, including sash, doors and blinds; cars and general shop construction and repairs by steam railroad companies; oil, linseed; foundry and machine shop products; liquors, malt; bread and other bakery products; boots and shoes.

The bulletin in comparing the data relative to the 12 leading industries of the state for the year 1905 and 1900 contains the following statement:

"Between 1900 and 1905 there was an increase for each item for the 12 industries. The number of establishments increased 436, or 17.5 per cent; the capital, \$25,289,557, or 26.9 per cent; the total average number of wage earners, 1,013, or 2.3 per cent; the wages, \$3,125,620, or 15.1 per cent; the cost of materials used, \$47,821,095, or 37.7 per cent; and the value of products, \$60,571,200, or 33.6 per cent. The importance of the 12 leading industries in comparison with all the industries for the state changed but slightly from one census to the other. With practically the same percentage of the number of establishments in the state at both censuses, the 12 industries controlled 70.6 per cent of the capital in 1900 and 64.5 per cent in 1905; employed 62.8 per cent of the wage earners in the earlier census and 63.6 per cent in the later; and contributed 80.5 per cent and 78.2 per cent of the value of the products, respectively, for the two censuses."

Table 6 for each of the 12 leading industries shows the money values represented as capital, and expenditure and value of products, and in table 7 is exhibited for each of the specified industries the relation of each item of expenditure to the total expenditure, the relation of the value of products to the capital invested, the per cent of each item of expenditure as represented in the value of products and the per cent of the capital invested which is represented in the value of products after deducting total expenses.

Table 8, 9 and 10 respectively present the same data for the principal industries in the three largest cities of the state, Duluth, Minneapolis, and St. Paul.

WAGE EARNERS.

The greatest number of wage earners during any period of the year employed was 97,401 and the least number was 53,634.

The average number of wage earners for each month was as follows:

	Total	Men	Women	Children
January	68,195	59,669	8,276	250
February	68,703	60,092	8,359	252
March	68,460	59,915	8,291	254
April	65,771	57,241	8,262	268
May	69,055	60,527	8,204	324
June	69,603	61,054	8,192	357
July	68,896	60,339	8,187	370
August	69,992	60,932	8,625	435
September	71,358	62,026	8,842	490
October	74,507	65,489	8,699	319
November	72,275	63,332	8,683	260
December	68,817	60,016	8,540	261

The average number of wage earners for the whole year has been given as 69,636 persons, or 60,886 men, 8,430 women and 320 children under 16 years of age. In other words there was employed one women to 7.2 men and one child to 216.6 wage earners over 16 years old, and the per cent of child labor in the manufacturing industries was 0.46 as against 1.01 in 1900.

Tables 11 to 15 show the changes in the wage earners, average number and in total wages. The data for the year 1900 in tables 13, 14 and 15 have been taken from the 12th census.

TABLE I.—Manufactures, by
Entire

Industry	Number of establishments	Capital	Salaried Officials Clerks, Etc.		Wage-Earners and Wages	
			Number	Salaries	Average Number	Wages
1 All industries.....	4,756	\$184,903,271	9,141	\$9,032,840	69,636	\$35,843,145
2 Agricultural implements.....	21	7,793,316	249	319,375	1,176	637,232
3 Artificial limbs.....	8	64,652	32	31,156	34	21,547
4 Artificial stone.....	32	200,329	22	17,881	265	150,694
5 Awnings, tents, and sails.....	14	122,828	18	15,724	100	43,714
6 Baking and yeast powders.....	6	23,810	15	16,497	18	7,807
7 Baskets, and rattan and willow ware..	5	1,223	.....	.....	2	600
8 Bicycles and tricycles.....	8	18,235	2	1,060	11	6,088
9 Bluing.....	3	10,325	.....	.....	8	3,682
10 Bookbinding and blank book making...	22	193,615	27	33,459	177	82,622
11 Boots and shoes.....	17	2,432,365	215	188,365	1,714	718,600
12 Boxes, cigar.....	6	31,152	1	780	60	19,475
13 Boxes, fancy and paper.....	6	342,221	22	32,356	320	119,354
14 Boxes, wooden packing.....	16	620,068	31	34,412	400	174,893
15 Bread and other bakery products....	272	2,508,707	242	181,758	1,347	669,929
16 Brick and tile.....	101	1,688,273	52	42,781	993	466,478
17 Brooms and brushes.....	27	100,836	10	6,220	140	62,921
18 Butter.....	712	3,191,859	222	61,065	998	607,248
19 Canning and preserving, fruits and vegetables.....	16	245,320	27	11,780	147	39,174
20 Carpets, rag.....	8	22,665	5	3,089	56	26,990
21 Carriage and wagon materials.....	7	63,695	8	3,850	51	28,910
22 Carriages and sleds, children's.....	8	203,384	21	20,950	159	69,549
23 Carriages and wagons.....	134	2,159,885	74	79,516	872	424,777
24 Cars and general shop construction and repairs by steam R. R. companies	24	6,961,326	372	339,762	5,767	3,300,180
25 Cement.....	3	87,000	7	5,980	89	42,659
26 Cheese.....	59	113,261	14	1,661	43	26,284
27 Chemicals.....	3	98,146	9	8,136	8	5,504
28 Clothing, men's.....	25	1,961,835	110	112,837	1,452	450,501
29 Clothing, women's.....	10	131,219	33	20,778	343	96,096
30 Coffee and spice, roasting and grinding	13	783,959	56	51,526	188	66,420
31 Coffins, burial cases, and undertakers' goods.....	7	563,420	30	37,047	190	93,576
32 Confectionery.....	27	824,561	151	140,595	646	202,138
33 Cooperage.....	32	909,788	45	53,400	739	373,894
34 Coppersmithing and sheet iron working	69	801,698	89	81,697	654	367,675
35 Druggists' preparations.....	4	65,227	5	6,300	38	13,669
36 Electrical machinery, apparatus, and supplies.....	15	389,211	32	35,960	170	103,015
37 Electroplating.....	4	12,050	7	4,680	24	15,562
38 Engraving and diesinking.....	4	22,775	6	5,660	35	24,325
39 Fancy articles, not elsewhere specified	44	215,600	44	65,720	241	73,551
40 Flavoring extracts.....	10	38,190	6	3,490	14	5,705
41 Flour and grist mill products.....	363	34,857,366	836	906,274	4,481	2,650,818
42 Food preparations.....	16	556,049	41	123,167	271	108,828
43 Foundry and machine shop products..	163	5,855,363	416	430,421	2,629	1,554,935
44 Fur goods.....	36	2,542,587	142	166,960	1,236	497,196
45 Furnishing goods, men's.....	4	79,700	9	7,674	13	12,288
46 Furniture.....	51	2,250,669	167	162,758	1,475	691,389

Specified Industries: 1905.

State.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products, Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
60,886	\$33,377,340	8,430	\$2,412,756	320	\$53,049	\$24,493,840	\$210,553,949	\$307,858,073	1
1,175	636,868	1	364			541,739	1,069,641	2,885,055	2
32	20,647	2	900			34,239	21,215	132,573	3
265	150,694					18,913	136,822	384,272	4
46	26,926	54	16,788			20,997	163,339	284,130	5
11	5,587	7	2,220			32,928	41,464	110,311	6
1	300	1	300			275	1,855	8,196	7
11	6,088					3,354	14,407	34,016	8
8	3,682					1,301	13,157	24,930	9
111	61,267	66	21,356			50,206	97,166	328,522	10
1,104	560,941	599	165,901	11	1,758	382,056	2,631,689	4,169,732	11
20	9,489	40	9,986			4,518	40,277	78,870	12
118	64,840	199	54,178	3	336	47,371	222,656	456,472	13
392	173,437			8	1,456	47,915	516,874	900,251	14
969	567,915	370	100,392	8	1,622	448,452	2,668,002	4,619,507	15
974	462,373	3	630	16	3,475	94,822	290,302	1,227,136	16
135	61,979	4	742	1	200	14,607	149,072	293,771	17
995	606,678	2	480	1	90	282,453	10,894,700	12,561,782	18
59	21,590	59	13,320	29	4,264	13,434	145,146	253,985	19
43	24,628	13	2,362			4,909	17,159	70,849	20
51	28,910					6,060	84,860	152,280	21
135	64,471	24	5,078			23,656	74,528	225,906	22
869	423,977	2	642	1	158	135,948	781,727	1,715,858	23
5,764	3,299,464			3	716	25,445	3,715,730	7,379,627	24
89	42,659					4,125	21,051	82,700	25
43	26,284					5,587	244,865	309,347	26
8	5,504					13,590	9,480	53,644	27
162	92,100	1,286	357,777	4	624	131,615	1,574,189	2,581,210	28
25	16,448	316	78,378	2	270	23,630	140,758	316,855	29
69	37,864	119	28,566			172,184	1,372,911	1,816,278	30
163	85,157	27	8,419			58,707	174,447	397,196	31
221	114,576	422	86,942	3	620	237,636	919,207	1,674,330	32
729	368,728	9	5,000	1	156	77,846	1,203,848	1,913,838	33
652	366,775	1	600	1	300	135,520	640,417	1,478,648	34
24	8,907	14	4,762			5,888	47,614	102,425	35
168	102,040	2	975			30,146	186,561	423,933	36
21	14,737	1	425	2	400	2,851	4,754	32,712	37
32	22,825	3	1,410			7,710	10,306	56,700	38
102	42,980	139	30,571			81,313	168,343	438,737	39
10	4,070	4	1,635			7,316	18,558	55,150	40
4,440	2,637,035	38	13,166	3	617	4,471,676	109,060,973	122,069,123	41
101	57,389	168	51,257	2	182	241,645	925,481	1,590,513	42
2,608	1,548,743	19	5,992	2	200	603,441	2,614,876	6,246,184	43
446	285,314	788	211,577	2	304	247,489	2,011,528	3,378,731	44
2	322	48	12,668	3	296	7,869	89,540	136,350	45
1,455	685,155	20	6,234			321,644	1,023,338	2,561,776	46

TABLE I.—

Industry	Number of establishments	Capital	Salaried Officials Clerks, Etc.		Wage-Earners and Wages	
			Number	Salaries	Average Number	Wages
47 Furs, dressed.....	8	317,855	42	23,540	138	91,086
48 Gas and lamp fixtures.....	8	61,300	8	8,030	48	29,477
49 Gas, illuminating and heating.....	16	11,389,669	86	78,741	575	568,023
50 Glass, cutting, staining, and ornamenting.....	6	29,550	2	1,950	99	52,033
51 Gloves and mittens, leather.....	7	69,066	9	5,431	65	21,646
52 Grease and tallow.....	9	43,355	3	2,300	26	15,703
53 Hand stamps.....	4	8,105	2	1,500	13	7,150
54 Hardware.....	4	32,893	8	5,375	35	15,038
55 Hats and caps, other than felt, straw, and wool.....	7	42,400	10	14,245	76	32,140
56 Hosiery and knit goods.....	10	968,304	51	72,226	615	190,148
57 House furnishing goods, not elsewhere specified.....	3	30,346	4	1,850	11	6,550
58 Jewelry.....	9	63,774	10	7,067	75	47,196
59 Leather goods.....	3	73,503	27	30,286	75	17,536
60 Leather, tanned, curried, and finished.....	9	82,260	2	2,400	40	19,350
61 Lime.....	8	211,011	5	2,600	128	76,211
62 Liquors, malt.....	76	13,552,125	258	371,470	1,035	689,594
63 Looking-glass and picture frames.....	6	18,550	1	1,450	31	14,682
64 Lumber and timber products.....	222	28,963,854	774	948,231	17,213	8,651,071
65 Lumber, planing mill products, including, sash, doors, and blinds.....	94	5,310,239	237	266,231	2,858	1,462,831
66 Malt.....	7	1,310,175	26	46,705	69	51,428
67 Marble and stone work.....	27	524,275	39	30,156	550	318,423
68 Mattresses and spring beds.....	8	430,180	44	40,646	192	92,901
69 Mineral and soda waters.....	86	598,870	39	33,860	188	90,084
70 Models and patterns, not including paper patterns.....	8	14,594	1	231	28	16,460
71 Monuments and tombstones.....	26	439,312	16	16,900	277	190,618
72 Musical instruments and materials, not specified.....	4	5,100	1	250	4	2,300
73 Musical instruments, pianos.....	3	27,510	1	800	23	15,680
74 Oil, linseed.....	5	3,201,094	34	65,919	353	203,586
75 Optical goods.....	4	18,400	4	4,240	22	13,386
76 Paints.....	5	672,324	45	56,052	78	37,390
77 Paper and wood pulp.....	4	1,490,902	22	31,450	396	234,378
78 Paper goods, not elsewhere specified.....	4	6,250	4	220	12	4,746
79 Patent medicines and compounds.....	68	1,702,701	373	221,701	296	119,327
80 Perfumery and cosmetics.....	5	69,400	6	5,500	10	3,500
81 Photolithographing and photoengraving.....	7	57,188	19	13,970	102	66,064
82 Pickles, preserves, and sauces.....	15	396,305	42	52,944	116	49,964
83 Pottery, terra cotta, and fire clay products.....	4	996,336	18	34,080	313	185,366
84 Printing and publishing, book and job.....	179	2,489,295	536	330,783	1,776	996,342
85 Printing and publishing, newspapers and periodicals.....	714	6,030,434	1,241	1,067,252	2,570	1,509,321
86 Printing materials.....	3	38,442	5	4,380	18	11,556
87 Roofing materials.....	3	173,177	16	12,988	32	14,488
88 Saddlery and harness.....	23	1,725,359	88	104,303	526	290,298
89 Sausage.....	5	15,300	1	700	14	7,650
90 Shipbuilding, wooden, including boat building.....	28	319,370	16	14,670	224	132,957
91 Shirts.....	5	34,175	5	4,650	44	18,436

Continued.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products, Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
129	87,835	9	3,263			27,263	1,003,472	1,139,235	47
37	26,758	11	2,719			5,418	43,386	100,427	48
574	267,623	1	400			159,981	623,634	2,033,347	49
99	52,033					10,285	48,308	137,333	50
16	9,593	48	11,883	1	170	4,740	52,377	98,133	51
26	15,703					4,507	94,173	143,147	52
12	6,850	1	300			2,943	2,707	21,897	53
34	14,799	1	239			4,583	12,662	46,764	54
33	19,234	43	12,906			4,719	56,931	115,063	55
87	36,230	478	147,335	50	6,583	109,360	626,001	1,202,586	56
10	6,130	1	420			7,661	46,585	77,200	57
71	46,254	4	942			8,395	53,458	151,473	58
21	10,522	54	7,014			2,699	39,874	108,761	59
40	19,350					3,016	88,016	132,533	60
127	75,911			1	300	8,275	128,286	289,075	61
1,006	663,915	29	5,679			2,230,775	1,739,094	6,177,528	62
30	14,282	1	400			6,292	39,708	77,577	63
17,192	8,646,587	3	490	18	3,994	6,333,459	12,302,578	33,183,309	64
2,825	1,476,249	20	4,500	13	2,082	423,143	4,978,161	7,949,212	65
69	51,428					139,370	897,423	1,197,639	66
548	318,064			2	377	49,007	205,611	692,835	67
163	82,109	29	10,692			87,299	296,526	581,424	68
185	89,002	1	480	2	612	84,320	178,636	572,309	69
27	16,260	1	200			3,437	8,579	41,574	70
277	190,618					53,824	135,279	552,121	71
4	2,300					733	881	9,125	72
23	15,600					3,823	28,474	55,245	73
353	203,598					456,462	6,089,474	7,018,234	74
22	13,396					3,150	32,045	79,000	75
63	32,266	15	5,124			104,930	454,222	708,924	76
380	229,920	16	4,458			60,884	676,549	1,145,818	77
6	3,230	5	1,255	1	260	1,209	3,254	13,110	78
136	67,664	160	51,663			712,281	1,282,742	2,980,115	79
2	1,500	8	2,000			20,033	9,184	53,513	80
77	56,319	23	9,390	2	355	16,112	22,646	145,149	81
64	33,268	49	16,416	3	300	37,314	289,590	523,645	82
313	185,366					46,434	194,864	562,726	83
1,263	804,485	483	186,919	30	4,938	400,984	968,864	3,406,129	84
2,097	1,358,970	425	143,764	48	6,587	1,537,118	1,673,516	7,699,229	85
15	10,866	3	700			12,137	12,851	43,201	86
27	17,975					19,295	206,401	248,643	87
32	14,488					143,390	1,017,722	1,695,451	88
501	281,829	25	8,469			1,236	45,700	62,000	89
14	7,650					16,668	101,658	342,113	90
224	132,957					8,424	24,577	74,135	91

TABLE I.—

Industry	Number of establishments	Capital	Salaried Officials Clerks, Etc.		Wage-Earners and Wages	
			Number	Salaries	Average Number	Wages
92 Show cases.....	6	72,200	6	4,500	112	70,970
93 Slaughtering and meat packing, whole- sale.....	14	3,280,383	267	241,581	1,320	756,293
94 Slaughtering, wholesale, not including meat packing	10	141,150	13	11,370	42	24,340
95 Soap.....	5	287,095	23	37,633	50	17,577
96 Starch.....	12	246,523	10	1,915	27	17,975
97 Steam fittings and heating apparatus..	6	43,500	21	9,150	54	30,801
98 Steam packing.....	3	168,601	14	14,240	88	29,827
99 Stereotyping and electrotyping.....	5	195,460	18	18,882	62	40,344
100 Stoves and furnaces, not including gas and oil stoves.....	10	298,218	41	41,130	109	58,768
101 Structural ironwork	12	2,509,869	138	150,462	1,183	757,288
102 Sugar and molasses, refining.....	7	311,228	19	52,800	71	24,713
103 Surgical appliances.....	3	7,480	.....	.....	5	2,698
104 Tobacco, chewing and smoking, and snuff.....	3	7,091	.....	.....	1	485
105 Tobacco, cigars and cigarettes.....	349	1,461,563	115	119,626	1,779	836,968
106 Tools, not elsewhere specified.....	6	85,145	3	720	16	10,143
107 Trunks and valises.....	9	115,508	16	11,153	71	36,099
108 Upholstering materials.....	8	98,661	3	2,100	36	13,335
109 Vinegar and cider.....	3	164,548	2	6,500	20	16,984
110 Washing machines and clothes wring- ers.....	4	35,560	2	1,655	16	6,600
111 Wirework, including wire rope and cable.....	7	95,524	7	3,690	31	20,187
112 Wood, turned and carved.....	3	10,550	3	2,500	15	5,600
113 Woolen goods.....	16	633,726	28	34,300	343	129,137
114 All other industries*.....	103	8,429,913	290	342,283	2,962	1,393,637

* Embraces automobile bodies and parts, 1; automobiles, 1; axle grease, 1; bags, other than paper, 2; bags, paper, 1; beet sugar, 1; belting and hose, leather, 2; boot and shoe uppers, 1; brass castings and brass finishing, 2; butter, reworking, 2; buttons, 1; canning and preserving, fish, 1; cars and general shop and construction and repairs by street railroad companies, 2; charcoal, 1; cleansing and polishing preparations, 2; coke, 1; cordials and syrups, 1; corsets, 2; cutlery and edge tools, 2; dairywomen's, poultrymen's, and apiarists' supplies, 2; dentists' materials, 2; enameling and enameled goods, 1; engraving, steel, including plate printing, 1; engraving, wood, 1; envelopes, 2; fire extinguishers, chemical, 1; flax and hemp, dressed, 1; gas machines and meters, 1; gypsum wall plaster, 2; hardware, saddlery, 1; hats, felt, 2; hats, straw, 1; horseshoes, 1; ink, printing, 1; instruments, professional and scientific, 2; iron and steel, blast furnaces, 1;

Continued.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products, Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
7	5,696	37	12,730			7,534	119,990	208,664	92
112	70,970				2,723	391,793	14,373,743	16,723,276	93
1,288	745,052	24	8,518	8		16,055	684,132	803,431	94
42	24,340					37,370	234,021	349,358	95
26	12,039	24	5,536			16,226	141,486	221,355	96
54	30,801					26,541	95,245	198,017	97
63	23,256	25	6,571			58,552	124,351	295,864	98
62	40,344					29,986	26,991	182,615	99
109	58,768					23,653	101,549	303,856	100
1,183	757,288					127,413	1,634,113	2,840,362	101
46	18,312	31	6,401			64,880	646,076	792,171	102
3	2,412	2	286			851	2,818	11,100	103
1	485					800	1,044	4,421	104
1,296	694,697	459	139,081	24	3,190	601,720	1,097,278	3,200,933	105
16	10,143					3,318	11,228	38,748	106
71	36,099					20,720	57,072	146,606	107
36	13,335					3,644	16,642	45,162	108
19	16,360	1	624			15,081	138,207	189,425	109
16	6,600					11,238	23,556	42,843	110
31	20,187					3,089	78,226	123,666	111
15	5,600					728	6,057	16,200	112
180	75,474	161	53,097	2	566	51,923	462,672	791,224	113
2,104	1,153,761	849	237,910	9	1,966	484,311	7,315,561	10,578,459	114

Iron and steel, doors and shutters, 1; labels and tags, 3; lamps and reflectors, 1; lead, bar, pipe, and sheet, 1; liquors, distilled, 1; liquors, vinous, 1; lithographing and engraving, 2; mantels, slate, marble, and marbleized, 1; matches, 1; mats and matting, 3; millinery and lace goods, 2; mirrors, 1; mucilage and paste, 2; musical instruments, organs, 2; oil, not elsewhere specified, 2; photographic apparatus, 1; photographic materials, 1; plated ware, 1; plumbers' supplies, 1; printing and publishing, music, 1; pumps, not including steam pumps, 1; refrigerators, 3; regalia and society banners and emblems, 2; rubber and elastic goods, 1; statuary and art goods, 1; stencils and brands, 2; tinware, 3; toys and games, 2; varnishes, 1; wheelbarrows, 1; windmills, 2; window shades and fixtures, 2; wood carpets, 1; wood distillation, not including turpentine and rosin, 1; wool scouring, 1.

TABLE II.—MANUFACTURES IN MUNICIPALITIES HAVING A POPULATION
DULUTH.

Industry	Number of establishments	Capital	Salaried Officials Clerks, Etc.		Wage-Earners and Wages	
			Number	Salaries	Total	
					Average Number	Wages
1 All Industries.....	163	\$9,537,548	503	\$503,834	3,987	\$2,185,783
2 Bookbinding and blank book making...	3	10,723			12	6,034
3 Boxes, wooden packing.....	3	67,241	5	2,325	47	20,561
4 Bread and other bakery products.....	12	78,696	7	3,108	56	35,040
5 Clothing, men's.....	4	60,376	5	4,400	74	18,489
6 Copper-smithing and sheet iron working	4	16,227	10	8,037	61	36,385
7 Flour and grist mill products.....	3	144,361	8	10,150	20	12,669
8 Foundry and machine shop products..	8	586,445	51	54,975	302	186,072
9 Furniture.....	4	22,300	3	2,260	30	18,008
10 Lumber and timber products.....	6	2,439,047	79	117,429	1,868	964,429
11 Lumber, planing mill products, including sash, doors and blinds.....	8	288,531	17	18,425	138	75,618
12 Mineral and soda waters.....	3	22,325			16	9,181
13 Patent medicines and compounds.....	3	27,379	5	4,600	10	3,756
14 Printing and publishing, book and job.	15	176,710	35	16,845	127	61,468
15 Printing and publishing, newspapers and periodicals.....	12	240,051	111	86,494	69	52,963
16 Saddlery and harness.....	4	188,540	13	12,584	101	61,221
17 Shipbuilding, wooden, including boat building.....	5	159,475	9	8,970	97	54,760
18 Tobacco, cigars and cigarettes.....	15	161,094	23	19,292	127	98,150
19 All other industries*.....	51	4,778,027	122	133,340	832	480,989

* Embraces agricultural implements, 1; artificial limbs, 1; awnings, tents, and sails, 2; boots and shoes, 2; boxes, cigar, 1; brass castings and brass finishing, 1; brooms and brushes, 1; butter, 2; butter, reworking, 1; canning and preserving, fish, 1; carpets, rag, 1; carriages and wagons, 2; cars and general shop construction and repairs by steam railroad companies, 2; cars and general shop construction and repairs by street railroad companies, 1; coffee and spice, roasting and grinding, 2; coke, 1; confectionery, 2; druggists' preparations, 1; flavoring extracts, 1; food preparations, 1; fur goods, 1; furnish-

IN 1900 OF AT LEAST 20,000, BY SPECIFIED INDUSTRIES: 1905.1905.

DULUTH.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products, Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
3,693	\$2,113,767	273	\$67,378	21	\$4,638	\$1,366,322	\$4,633,827	\$10,139,009	1
6	4,556	6	1,478	.....	.....	1,694	12,654	24,974	2
46	20,257	.....	.....	1	304	2,573	58,186	101,055	3
51	32,700	6	2,340	.....	.....	10,512	104,561	184,166	4
8	3,972	68	14,517	.....	.....	6,327	98,549	136,166	5
61	36,385	.....	.....	.....	.....	9,383	59,507	138,978	6
20	12,669	.....	.....	.....	.....	24,616	466,004	559,732	7
302	186,072	.....	.....	.....	.....	66,900	349,216	702,638	8
30	18,008	.....	.....	.....	.....	3,372	21,861	53,123	9
1,862	952,899	.....	.....	6	1,530	628,679	996,073	3,212,580	10
138	75,618	.....	.....	.....	.....	21,758	336,155	492,194	11
16	9,181	.....	.....	.....	.....	4,336	9,008	43,960	12
5	2,520	5	1,236	.....	.....	17,182	26,942	61,759	13
96	54,256	26	6,402	5	800	30,383	59,140	231,269	14
67	52,106	1	632	1	225	38,133	67,241	336,581	15
96	59,427	5	1,794	.....	.....	15,745	123,673	220,837	16
97	54,760	.....	.....	.....	.....	8,378	44,373	126,643	17
106	93,143	21	5,007	.....	.....	67,473	97,529	318,875	18
686	445,238	138	33,972	8	1,779	408,878	1,704,155	3,193,479	19

ing goods, men's, 1; furs, dressed, 1; gas and lamp fixtures, 1; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; grease and tallow, 1; hats, felt, 1; horseshoes, 1; hosiery and knit goods, 1; iron and steel, blast furnaces, 1; jewelry, 1; lime, 1; liquors, malt, 2; looking-glass and picture frames, 1; marble and stone work, 1; matches, 1; optical goods, 1; shirts, 1; show cases, 1; slaughtering and meat packing, wholesale, 1; tobacco, chewing and smoking, and snuff, 1; trunks and valises, 1.

MINNEAPOLIS.

Industry	Number of establishments	Capital	Salaried Officials, Clerks, Etc.		Wage-Earners and Wages	
			Number	Salaries	Average Number	Wages
1 All Industries.....	877	\$66,699,604	3,542	\$3,560,129	21,752	\$11,460,386
2 Agricultural implements.....	6	371,775	31	28,690	148	69,900
3 Artificial limbs.....	3	51,242	30	29,320	24	14,675
4 Artificial stone.....	9	65,069	17	15,466	105	53,441
5 Awnings, tents, and sails.....	5	63,542	12	9,632	53	24,900
6 Baking and yeast powders.....	4	17,560	13	15,397	12	5,202
7 Baskets, and rattan and willow ware..	3	828	.....	.....	2	600
8 Bicycles and tricycles.....	4	10,850	.....	.....	4	1,976
9 Bluing.....	3	10,325	.....	.....	8	3,682
10 Bookbinding and blank book making..	8	104,909	16	20,955	80	29,561
11 Boots and shoes.....	6	335,317	20	19,350	429	177,272
12 Boxes, fancy and paper.....	3	221,643	13	19,536	180	72,105
13 Boxes, wooden packing.....	3	297,820	15	21,712	188	92,131
14 Bread and other bakery products.....	70	1,370,332	132	114,473	732	349,123
15 Brick and tile.....	8	238,321	7	6,940	106	59,313
16 Brooms and brushes.....	9	24,221	2	1,500	40	21,694
17 Butter.....	12	235,963	5	8,542	22	14,794
18 Carriages and sleds, children's.....	3	158,612	13	14,400	115	48,004
19 Carriages and wagons.....	23	239,345	11	12,900	171	94,463
20 Cars and general shop construction and repairs by steam railroad companies.	4	1,400,184	91	78,157	1,634	953,349
21 Clothing, men's.....	10	546,830	48	39,108	377	124,701
22 Clothing, women's.....	5	72,454	26	13,140	224	51,202
23 Coffee and spice, roasting and grinding	6	222,370	17	14,400	34	16,494
24 Confectionery.....	8	376,229	76	76,505	260	82,491
25 Cooperage.....	15	608,199	32	33,415	550	296,041
26 Coppersmithing and sheet iron working	31	349,840	42	36,528	323	193,012
27 Electrical machinery, apparatus, and supplies.....	7	222,326	18	21,700	107	59,725
28 Flavoring extracts.....	6	20,740	4	2,340	5	1,980
29 Flour and grist mill products.....	12	19,488,725	297	401,420	2,277	1,404,367
30 Food preparations.....	9	480,091	37	116,387	211	85,214
31 Foundry and machine shop products..	55	2,533,757	189	205,000	1,138	684,580
32 Fur goods.....	13	227,866	34	36,214	174	74,847
33 Furniture.....	19	1,041,745	81	77,909	710	326,379
34 Furs, dressed.....	4	215,800	41	22,940	58	37,820
35 Gas and lamp fixtures.....	4	20,800	3	2,850	17	6,289
36 Glass, cutting, staining and ornamenting.....	3	18,000	2	1,950	78	41,668
37 Gloves and mittens, leather.....	3	13,025	2	1,070	19	9,182
38 Hardware.....	3	18,753	6	3,575	15	7,838
39 Hats and caps, other than felt, straw, and wool.....	3	16,300	1	365	20	9,384
40 Hosiery and knit goods.....	6	636,937	39	61,690	427	143,754
41 Jewelry.....	5	49,766	10	7,057	49	28,600
42 Liquors, malt.....	5	3,716,190	58	100,409	251	163,125
43 Looking-glass and picture frames.....	4	17,400	1	1,450	26	12,650
44 Lumber and timber products.....	9	6,629,285	115	181,670	3,004	1,467,749
45 Lumber, planing mill products, including sash, doors, and blinds.....	24	2,911,901	114	140,275	1,415	766,981
46 Marble and stone work.....	5	44,359	.....	.....	63	52,352

MINNEAPOLIS.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products, Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
18,483	\$10,492,304	3,202	\$956,409	6	\$11,672	\$9,220,861	\$89,086,269	\$121,593,120	1
147	69,536	1	364			36,174	177,649	387,834	2
23	14,155	1	520			30,436	16,195	106,923	3
106	53,441					7,123	45,531	119,001	4
24	14,110	29	10,790			13,511	105,442	172,362	5
6	3,307	6	1,896			32,199	31,973	91,111	6
1	300	1	300			78	795	5,196	7
4	1,976					1,230	9,632	18,481	8
8	3,682					1,301	13,157	24,980	9
56	30,737	24	8,824			39,328	43,286	170,019	10
261	132,091	168	45,181			34,656	397,592	662,826	11
73	40,700	107	31,405			24,385	154,867	289,913	12
188	92,131					26,568	236,157	426,668	13
476	278,948	252	69,439	4	736	290,593	1,466,477	2,512,607	14
106	59,313					19,307	36,278	146,914	15
40	21,694					3,066	38,043	88,522	16
22	14,794					7,414	109,997	149,548	17
96	43,946	19	4,058			12,209	36,100	129,800	18
171	94,463					20,226	142,781	321,999	19
1,634	953,349					13,823	981,919	2,027,248	20
48	31,350	329	93,351			55,418	615,872	890,128	21
8	5,551	214	45,381	2	270	8,657	74,109	171,490	22
23	13,780	11	2,714			53,403	557,152	687,240	23
96	49,598	165	32,893			120,535	396,286	737,248	24
541	291,041	9	5,000			48,273	873,155	1,415,360	25
321	192,112	1	600	1	300	71,236	282,545	702,814	26
106	58,750	2	975			14,431	122,350	250,500	27
4	1,720	1	260			3,746	13,993	31,325	28
2,192	1,392,001	35	12,366			2,893,760	56,357,957	62,754,446	29
61	37,959	150	47,255			228,010	768,616	1,361,492	30
1,122	679,514	14	4,866	2	200	313,065	1,165,336	2,820,697	31
71	41,410	103	33,437			74,818	230,063	462,073	32
694	321,295	16	5,084			153,496	491,298	1,238,324	33
52	35,820	6	2,000			22,616	981,985	1,099,360	34
8	4,090	9	2,199			2,372	16,655	33,788	35
78	41,668					8,265	42,796	106,658	36
7	4,940	12	4,242			2,154	17,388	36,442	37
14	7,599	1	239			3,668	10,482	29,264	38
5	3,808	15	5,576			1,375	10,633	27,443	39
51	22,111	376	121,643			96,128	474,820	957,445	40
47	28,184	2	416			6,557	35,014	96,682	41
237	160,400	14	2,725			402,262	427,415	1,185,525	42
26	12,650					5,386	35,878	68,177	43
2,994	1,465,749			10	2,000	963,144	2,557,446	5,816,726	44
1,382	760,399	20	4,500	13	2,082	253,084	2,566,165	4,144,116	45
63	52,362					7,607	65,500	129,982	46

TABLE II.—

Industry	Number of establishments	Capital	Salaried Officials Clerks, Etc.		Wage-Earners and Wages	
			Number	Salaries	Total	
					Average Number	Wages
47 Mattresses and spring beds.....	4	338,980	19	21,192	137	63,701
48 Mineral and soda waters.....	8	111,268	3	1,670	35	24,026
49 Models and patterns, not including paper patterns.....	7	12,994	1	231	28	16,460
50 Musical instruments and materials, not specified.....	3	4,875	1	250	4	2,300
51 Patent medicines and compounds.....	24	638,647	304	146,881	132	59,132
52 Perfumery and cosmetics.....	4	6,400	1	500	6	1,900
53 Photolithographing and photoengraving	4	37,688	16	12,570	71	51,899
54 Pickles, preserves, and sauces.....	7	268,556	31	38,594	84	34,473
55 Printing and publishing, book and job.	89	977,333	262	150,962	776	421,632
56 Printing and publishing, newspapers and periodicals.....	86	2,035,852	633	545,184	586	409,165
57 Saddlery and harness.....	7	517,400	37	34,835	129	70,502
58 Shipbuilding, wooden, including boat building.....	3	5,925	.....	.....	2	1,000
59 Show cases.....	3	34,400	3	2,280	78	47,713
60 Steam fittings and heating apparatus..	5	41,700	21	9,150	50	28,001
61 Stereotyping and electrotyping.....	3	166,050	14	15,398	49	28,800
62 Structural ironwork.....	7	1,828,671	88	94,876	766	489,929
63 Tobacco, cigars and cigarettes.....	48	293,560	34	37,582	377	183,580
64 Tools, not elsewhere specified.....	3	55,410	1	300	8	6,560
65 Trunks and valises.....	5	53,675	8	5,813	40	21,480
66 All other industries*.....	98	13,552,675	344	420,524	2,559	1,253,523

* Embraces automobiles, 1; bags, other than paper, 2; bags, paper, 1; beet sugar, 1; belting and hose, leather, 2; boot and shoe uppers, 1; boxes, cigar, 2; buttons, 1; canning and preserving, fruits and vegetables, 1; carriage and wagon materials, 1; cars and general shop construction and repairs by street railroad companies, 1; chemicals, 2; cleansing and polishing preparations, 1; coffins, burial cases, and undertakers' goods, 2; dairymen's, poulterers' supplies, 1; druggists' preparations, 1; electroplating, 2; enameling and enameled goods, 1; engraving and diesinking, 2; envelopes, 1; fire extinguishers, chemical, 1; furnishing goods, men's, 1; gas, illuminating and heating, 2; grease and tallow, 1; gypsum wall plaster, 1; hand stamps, 1; hardware, saddlery, 1; house furnishing goods, not elsewhere specified, 2; ink, printing, 1; instruments, professional and scientific, 1; iron and steel, doors and shutters, 1; labels and tags, 2; lamps and reflectors, 1; leather goods, 1; leather, tanned curried, and finished, 1; liquors, vinous, 1; lithograph-

Continued.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products, Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
119	57,809	18	5,892			67,473	242,274	417,424	47
35	24,026					12,224	20,835	86,966	48
27	16,260	1	200			3,272	8,204	40,374	49
4	2,300					585	756	8,100	50
47	24,740	85	34,392			501,570	779,714	1,715,889	51
1	1,000	5	900			783	3,344	8,513	52
64	49,179	6	2,590	1	130	13,613	11,000	105,249	53
45	22,264	37	11,908	2	300	28,556	206,319	382,595	54
555	345,147	200	72,983	21	3,502	212,809	387,577	1,426,441	55
524	382,499	60	26,308	2	358	860,125	641,331	3,052,072	56
126	69,662	3	840			44,433	253,981	406,496	57
2	1,000					1,563	1,825	6,960	58
78	47,713					5,166	86,015	134,516	59
50	28,001					26,231	93,965	191,517	60
49	28,800					11,157	20,062	129,771	61
766	489,929					72,841	1,200,438	1,991,771	62
215	130,580	160	52,588	2	412	124,869	223,959	646,465	63
8	6,560					1,941	9,238	29,448	64
40	21,480					14,931	41,930	92,000	65
2,038	1,104,831	514	147,310	7	1,382	789,626	11,620,672	15,623,896	66

ing and engraving, 2; malt, 1; mantels, slate, marble, and marbled, 1; monuments and tombstones, 1; muclage and paste, 1; musical instruments, organs, 1; oil, linseed, 3; oil, not elsewhere specified, 2; optical goods, 2; paints, 2; paper and wood pulp, 1; paper goods, not elsewhere specified, 2; printing and publishing music, 1; printing, materials, 1; pumps, not including steam pumps, 1; regalia and society banners and emblems, 1; roofing materials, 2; rubber and elastic goods, 1; sausage, 1; shirts, 2; slaughtering, wholesale, not including meat packing, 2; soap, 2; statuary and art goods, 1; steam packing, 1; stencils and brands, 1; stoves and furnaces, not including gas and oil stoves, 2; surgical appliances, 2; tinware, 1; tobacco, chewing and smoking, and snuff, 1; toys and games, 2; washing machines and clothes wringers, 1; wheelbarrows, 1; window shades and fixtures, 1; wirework, including wire rope and cable, 1; wood carpet, 1; wood, turned and carved, 1; wool scouring, 1; woolen goods, 1.

TABLE II.—

ST. PAUL.

Industry	Number of establishments	Capital	Salaried Officials Clerks, Etc.		Wage-Earners and Wages	
			Number	Salaries	Average Number	Wages
1 All industries.....	614	\$36,401,282	2,108	\$2,202,237	14,363	\$7,210,757
2 Artificial limbs.....	3	4,060	.....	.....	6	3,344
3 Artificial stone.....	6	68,460	3	1,935	106	67,426
4 Awnings, tents, and sails.....	5	43,716	6	6,092	33	13,025
5 Bicycles and tricycles.....	4	7,385	2	1,060	7	4,112
6 Bookbinding and blank book making..	9	75,783	11	12,504	84	36,819
7 Boots and shoes.....	4	1,392,436	45	53,601	1,041	456,280
8 Boxes, cigar.....	3	19,000	.....	.....	37	12,400
9 Boxes, wooden packing.....	3	41,986	5	3,775	68	24,178
10 Bread and other bakery products.....	41	619,778	58	42,437	294	156,886
11 Brooms and brushes.....	5	50,802	8	4,720	66	26,619
12 Butter.....	4	107,029	9	8,070	49	30,881
13 Carpets, rag.....	4	5,350	2	1,200	15	10,980
14 Carriages and sleds, children's.....	3	26,272	5	4,030	20	11,565
15 Carriages and wagons.....	19	327,273	13	11,975	161	79,825
16 Cars and general shop construction and repairs by steam railroad companies.	2	3,269,976	124	108,048	1,825	1,003,544
17 Clothing, men's.....	8	1,182,855	49	63,947	594	278,068
18 Clothing, women's.....	4	56,165	4	4,838	96	34,886
19 Coffee and spice, roasting and grinding	5	535,847	31	34,815	152	49,602
20 Confectionery.....	10	186,238	45	46,248	205	65,010
21 Cooperage.....	5	108,896	3	4,000	51	22,328
22 Coppersmithing and sheet iron work- ing.....	24	326,237	35	34,732	244	123,680
23 Electrical machinery, apparatus, and supplies.....	8	166,885	14	14,260	63	43,290
24 Food preparations.....	5	44,858	3	5,580	50	18,010
25 Foundry and machine shop products..	23	1,665,444	125	129,591	683	409,002
26 Fur goods.....	13	2,219,396	106	128,546	1,003	401,181
27 Furniture.....	14	374,505	34	31,760	278	170,747
28 Furs, dressed.....	3	93,055	1	600	75	51,043
29 Hats and caps, other than felt, straw, and wool.....	4	26,100	9	13,880	55	22,756
30 Liquors, malt.....	4	5,528,895	74	123,277	354	242,409
31 Lumber, planing mill products, includ- ing sash, doors and blinds.....	10	881,917	57	60,000	649	308,189
32 Marble and stone work.....	5	145,478	7	3,620	93	71,739
33 Mattresses and spring beds.....	3	89,500	25	19,454	50	27,000
34 Patent medicines and compounds.....	21	117,721	29	28,220	57	21,490
25 Photolithographing and photoengrav- ing.....	3	19,500	3	1,400	31	14,165
36 Pickles, preserves, and sauces.....	4	45,900	3	6,500	19	9,746
37 Printing and publishing, book and job.	54	1,262,505	234	153,176	803	486,462
38 Printing and publishing, newspapers and periodicals.....	51	1,344,856	365	327,384	636	464,801
39 Saddlery and harness.....	6	918,785	36	56,584	277	148,917
40 Sausage.....	4	11,300	.....	.....	9	4,650
41 Shipbuilding, wooden, including boat building.....	4	17,600	1	1,000	15	7,636
42 Slaughtering and meat packing, whole- sale.....	5	178,217	15	9,252	76	44,550
43 Slaughtering, wholesale, not including meat packing.....	4	52,100	3	2,220	17	7,550

Continued.

ST. PAUL.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
10,673	\$6,150,990	3,658	\$1,054,825	3	\$4,942	\$4,473,388	\$19,487,692	\$38,318,704	1
5	2,964	1	380			1,143	1,915	11,800	2
106	67,426					8,043	52,265	166,260	3
14	8,831	19	4,194			5,644	49,957	88,497	4
7	4,112					2,124	4,775	15,538	5
47	25,766	37	11,053			8,848	40,712	130,889	6
693	355,143	341	100,279	7	858	248,516	1,277,446	2,186,599	7
12	5,864	25	6,536			2,644	23,505	49,670	8
68	24,178					3,163	52,519	95,591	9
221	138,069	72	18,747	1	89	97,420	609,900	1,018,673	10
62	25,803	3	616	1	200	9,002	81,859	147,511	11
49	30,881					12,096	470,908	562,018	12
14	10,740	1	240			1,877	8,354	31,650	13
20	11,565					6,254	14,672	48,000	14
161	79,826					16,780	132,383	303,638	15
1,822	1,002,828			3	716	2,884	1,230,866	2,345,342	16
88	47,948	802	229,496	4	624	62,913	763,357	1,365,951	17
15	9,389	81	25,497			14,403	51,827	115,365	18
40	23,833	107	25,769			116,752	798,242	1,105,888	19
69	36,820	136	28,190			60,103	220,615	445,994	20
51	22,328					8,787	77,727	126,372	21
244	123,680					52,252	268,273	572,727	22
63	43,290					15,715	64,211	173,433	23
30	13,826	18	4,002	2	182	11,273	59,004	109,559	24
682	408,642	1	760			157,014	694,144	1,747,729	25
359	234,879	642	165,998	2	304	165,196	1,111,176	2,791,092	26
274	169,597	4	1,150			60,251	232,766	572,606	27
75	51,043					3,803	18,169	91,388	28
28	15,426	27	7,330			3,344	46,298	87,620	29
340	239,575	14	2,834			1,167,704	664,050	2,596,806	30
649	308,189					67,123	892,704	1,486,196	31
93	71,739					18,221	105,788	226,397	32
40	22,350	10	4,650			19,391	51,174	157,500	33
32	14,921	25	6,563			127,904	89,848	408,091	34
13	7,140	17	6,800	1	225	2,499	11,586	39,900	35
15	8,546	4	1,200			6,161	39,600	69,000	36
564	384,238	236	101,744	3	480	148,665	483,374	1,637,452	37
542	427,419	92	37,070	2	312	440,630	519,902	2,099,770	38
260	143,082	17	5,835			79,917	603,622	1,007,626	39
9	4,650					664	30,730	42,000	40
15	7,636					429	9,687	24,112	41
76	44,550					10,573	772,462	891,300	42
17	7,550					4,128	159,380	209,314	43

TABLE II.—

Industry	Number of establishments	Capital	Salaried Officials Clerks, etc.		Wage Earners and Wages	
			Number	Salaries	Average Number	Wages
44 Soap	3	277,230	21	35,433	44	14,455
45 Stoves and furnaces, not including gas and oil stoves.....	5	76,750	6	5,880	42	21,466
46 Structural ironwork.....	4	666,998	50	55,566	409	283,213
47 Tobacco, cigars and cigarettes.....	63	506,886	51	57,362	632	276,043
48 Trunks and valises.....	3	51,375	8	5,340	25	11,100
49 Vinegar and cider.....	3	164,548	2	6,500	20	16,984
50 Wirework, including wire rope and cable.....	3	26,265	1	360	20	11,742
51 All other industries*.....	110	10,971,179	367	466,445	2,424	1,109,951

TABLE III.—MANUFACTURES IN MUNICIPALITIES HAVING A

1 Total for municipalities.....	216	\$12,139,360	613	\$602,689	4,289	\$2,004,455
2 Mankato	54	2,223,085	115	101,935	724	303,890
3 St. Cloud.....	40	1,001,190	44	43,660	667	352,626
4 Stillwater	36	2,827,939	203	175,509	965	454,346
5 Winona	86	6,087,146	251	281,586	1,953	894,094

* Embraces agricultural implements, 2; automobile bodies and parts, 1; axle grease, 1; baking and yeast powders, 2; baskets, and rattan and willow ware, 2; boxes, fancy and paper, 2; brass castings and brass finishing, 1; brick and tile, 2; butter, reworking, 1; canning and preserving, fruits and vegetables, 1; carriage and wagon materials, 2; chemicals, 1; cheese, 1; cordials and syrups, 1; cutlery and edge tools, 1; dentists' materials, 2; druggists' preparations, 2; electroplating, 2; engraving and diesinking, 2; engraving, steel, including plate printing, 1; engraving, wood, 1; envelopes, 1; fancy articles, not elsewhere specified, 2; flavoring extracts, 2; flour and grist mill products, 2; furnishing goods, men's, 1; gas and lamp fixtures, 2; gas, illuminating and heating, 2; glass, cutting, staining, and ornamenting, 2; gypsum wall plaster, 1; hand stamps, 2; hardware, 1; hats, straw, 1; house furnishing goods not elsewhere specified, 1; instruments, professional and scientific, 1; jewelry, 2; labels and tags, 1; lead, bar, pipe, and sheet, 1; leather, tanned, curried, and finished, 1; liquors, distilled, 1; looking-

Continued.

Wage-Earners and Wages—Continued						Expenses	Cost of Material Used	Value of Products Including Work and Repairing	
Men 16 Years and Over		Women 16 Years and Over		Children Under 16 Years					
Average Number	Wages	Average Number	Wages	Average Number	Wages				
21	9,439	23	5,016	.....	.....	34,990	213,102	314,025	44
42	21,466	.....	.....	.....	.....	5,878	34,110	80,411	45
409	263,213	.....	.....	.....	.....	52,544	427,286	827,881	46
413	208,192	215	66,235	4	616	294,184	374,727	1,157,708	47
25	11,100	.....	.....	.....	.....	5,021	12,345	44,150	48
19	16,360	1	624	.....	.....	15,081	138,207	189,425	49
20	11,742	.....	.....	.....	.....	914	8,854	29,573	50
1,735	923,207	687	186,411	2	336	856,524	4,787,399	8,275,670	51

POPULATION IN 1900 OF AT LEAST 8,000 BUT UNDER 20,000: 1905.

3,845	900,521	378	\$94,655	66	\$9,279	\$1,255,191	\$10,572,108	\$16,050,942	1
567	269,503	102	25,984	55	7,903	218,124	2,529,294	3,422,117	2
646	350,318	8	1,996	3	312	116,993	1,284,509	1,994,476	3
906	442,265	50	12,080	.....	.....	425,453	1,484,642	2,784,113	4
1,727	838,435	218	54,505	8	1,064	494,621	5,273,653	7,850,236	5

glass and picture frames, 1; lumber and timber products, 1; malt, 1; mats and matting, 2; millinery and lace goods, 2; mineral and soda waters, 1; mirrors, 1; models and patterns, not including paper patterns, 1; monuments and tombstones, 2; muclage and paste, 1; musical instruments and materials, not specified, 1; musical instruments, pianos, 1; oil, linseed, 1; optical goods, 1; paints, 3; perfumery and cosmetics, 1; photographic materials, 1; plated ware, 1; plumbers' supplies, 1; printing materials, 2; refrigerators, 3; regalia and society banners and emblems, 1; roofing materials, 1; shirts, 2; show cases, 1; steam fittings and heating apparatus, 1; steam packing, 1; stencils and brands, 1; stereotyping and electrotyping, 2; sugar and molasses, refining, 2; surgical appliances, 1; tinware, 2; tobacco, chewing and smoking, and snuff, 1; tools, not elsewhere specified, 1; varnishes, 1; washing machines and clothes wringers, 1; wind-mills, 1; window shades and fixtures, 1; wood, turned and carved, 2.

TABLE IV.—Comparative Summary for the State and for Municipalities Having a Population in 1900 of 8,000 and Over, With Percent of Increase: 1905 and 1900.

Municipality	Census	Number of establishments	Capital	Wage-Earners		Miscellaneous expenses	Cost of materials used	Value of products including custom work and repairing
				Average number	Wages			
The State	1905	4,766	\$184,903,271	69,636	\$35,843,145	\$24,493,840	\$210,553,949	\$307,853,073
Percent of increase	1900	4,096	133,076,669	68,930	30,596,425	12,742,948	150,299,277	223,692,922
		16.1	38.9	1.0	17.1	92.2	40.1	37.6
Duluth	1905	163	9,537,548	3,987	2,185,783	1,386,322	4,633,827	10,133,009
Percent of increase	1900	126	5,967,201	3,658	1,778,804	918,665	3,658,988	7,810,737
		29.4	59.8	9.0	22.9	48.7	26.6	29.8
Mankato	1905	54	2,223,065	724	303,390	218,124	2,629,294	3,422,117
Percent of increase	1900	47	1,076,717	520	176,390	69,129	1,354,723	1,887,315
		14.9	106.5	39.2	72.0	215.5	86.7	81.3
Minneapolis	1905	877	66,699,604	21,752	11,460,385	9,220,861	89,086,269	121,593,120
Percent of increase	1900	789	50,176,730	19,620	9,383,404	4,158,196	68,909,670	94,407,774
		11.2	32.9	10.9	22.1	121.8	29.3	28.8
St. Cloud	1905	40	1,001,190	657	352,826	116,983	1,284,509	1,994,476
Percent of increase	1900	30	608,878	507	266,387	52,446	1,076,591	1,560,792
		33.3	64.4	29.6	32.4	114.0	19.3	27.8
St. Paul	1905	614	36,401,282	14,363	7,210,757	4,473,388	19,487,682	38,318,704
Percent of increase	1900	537	25,659,214	13,019	5,323,517	2,969,230	15,912,582	30,066,070
		14.3	41.9	10.3	35.5	51.2	22.5	27.5
Stillwater	1905	36	2,827,939	952	454,245	425,453	1,484,642	2,794,113
Percent of increase	1900	32	2,172,091	829	357,718	150,207	1,060,428	1,801,012
		12.5	30.2	15.2	27.0	183.2	41.3	54.6
Winona	1905	86	6,087,146	1,952	894,094	494,621	5,273,663	7,850,296
Percent of increase	1900	72	5,312,526	1,965	828,080	404,931	4,000,719	6,013,517
		19.4	14.6	10.6	8.0	22.1	31.8	30.5
Total for 7 municipalities	1905	1,870	124,777,794	44,391	22,951,380	16,315,762	123,779,896	186,101,775
Percent of increase	1900	1,623	90,975,360	40,118	18,114,300	8,712,584	95,563,701	143,537,216
		14.5	37.2	10.7	26.2	87.3	29.0	29.7
Percent of total for 7 municipalities to total for state	1905	39.3	67.5	63.7	63.8	66.6	58.8	60.5
	1900	39.9	68.4	58.2	59.2	68.4	63.8	64.2

(1) Decrease.

TABLE V.—Percent of Total Expenditures Consumed by Each Item of Expense; Percent of Value of Product Representing Each Item of Expense; Value of Product Representing Percent of Capital; Value of Product Less Total Expense Representing Percent of Capital. Entire State and the Seven Principal Municipalities: 1905

	Percent of Total Expenditures Consumed by				Percent of Value of Product Representing				Value of product representing per cent of capital	Value of product less total expense representing per cent of capital
	Salaries	Wages	Miscellaneous Expense	Material used	Salaries	Wages	Miscellaneous Expense	Material used		
All industries, entire state.....	3.3	12.8	8.7	75.2	2.9	11.6	7.9	68.4	120.5	15.1
Duluth	5.8	25.2	15.7	53.3	5.0	21.5	13.5	45.7	106.3	15.2
Mankato	3.2	9.6	7.0	80.2	3.0	8.9	6.4	73.9	153.9	12.1
Minneapolis	3.2	10.1	8.1	78.6	2.9	9.3	7.6	73.3	182.3	12.4
St. Cloud	2.4	19.6	6.5	71.5	2.2	17.8	6.9	64.4	199.2	19.6
St. Paul	6.6	21.6	13.4	58.4	6.7	18.8	11.6	50.8	105.3	13.6
Stillwater.....	6.9	17.9	16.8	58.4	6.3	16.3	15.3	53.3	98.4	8.6
Winona	4.1	12.8	7.1	76.0	3.6	11.4	6.3	67.2	129.0	14.9

TABLE VI.—Money Values Presented in Each of the Twelve Leading Industries. Entire State: 1905.

Industry	Number of Establishments	Capital	Salaries	Wages	Miscellaneous Expense	Cost of Material used	Value of Product	Rank
Boots and shoes	17	\$2,432,365	\$188,365	\$718,600	\$382,056	\$2,631,689	\$4,189,732	12
Bread and other bakery products	272	2,606,707	181,368	689,929	446,462	2,668,002	4,619,507	11
Cars and general shop construction and repairs by steam railroad companies	24	6,961,326	339,762	3,300,180	25,445	3,715,730	7,379,627	7
Cheese and butter	771	3,306,120	62,926	633,532	238,040	11,139,666	12,871,123	4
Flour and grist mill products	363	34,857,866	906,274	2,660,818	4,471,676	109,060,973	122,069,123	1
Foundry and machine shop products	173	6,153,681	430,421	1,613,703	632,094	2,716,425	6,660,040	9
Liquors, malt	76	13,662,126	371,470	693,594	2,230,775	1,739,084	6,177,628	10
Lumber and timber products	222	28,963,864	948,231	8,661,071	6,333,459	12,302,578	33,183,309	2
Lumber, planing mill products, including sash, doors and blinds	94	5,310,239	266,231	1,482,831	423,143	4,978,161	7,949,212	5
Oil, linseed	5	3,201,094	65,919	203,598	456,462	6,089,474	7,018,234	8
Printing and publishing	893	8,519,729	1,398,085	2,506,663	1,938,102	2,642,880	11,106,368	6
Slaughtering and meat packing	24	3,421,533	252,961	780,633	407,948	15,067,875	17,626,707	3

TABLE VII.—Percent of Total Expenditure Consumed by Each Item of Expense; Percent of Value of Product Representing Each Item of Expense; Value of Product Representing Percent of Capital; Value of Product Less Total Expense Representing Percent of Capital. Twelve Principal Industries Entire State: 1905.

INDUSTRY	Percent of Expenditure Consumed by						Percent of Value of Product Representing						Value of Product Representing Per cent of Capital
	Salaries	Wages	Miscell.	Expense	Material	Used	Salaries	Wages	Miscell.	Expense	Material	Used	Total
Boots and shoes	4.8	18.3	9.8	67.1	4.5	17.2	9.2	63.1	85.6	17.4	17.4	10.2	10.2
Bread and other bakery products	4.6	16.9	11.3	67.2	3.9	14.5	9.7	57.5	85.6	184.1	184.1	14.3	14.3
Cars and gen'l shop construction and repairs by steam R.R. companies	4.6	44.8	0.3	50.3	4.6	44.7	0.3	50.3	99.9	106.0	106.0	(*)	(*)
Cheese and butter	0.5	5.2	2.4	91.9	0.5	4.9	2.3	86.5	94.2	389.4	389.4	22.6	22.6
Flour and grist mill products	0.8	2.3	3.8	93.1	0.7	2.2	3.7	89.4	96.0	350.1	350.1	11.4	11.4
Foundry and machine shop products	8.0	29.9	11.7	50.4	6.6	24.6	36.1	41.5	82.4	106.4	106.4	17.8	17.8
Liquors, malt	7.4	13.4	44.5	34.7	6.0	10.8	19.1	37.1	85.2	114.6	114.6	16.7	16.7
Lumber and timber products	3.4	30.6	22.4	43.6	2.9	26.1	19.1	62.6	89.9	149.7	149.7	15.0	15.0
Lumber, planing mill products, including sash, doors and blinds	3.7	20.8	6.9	69.3	3.3	18.7	6.5	86.7	97.0	219.2	219.2	6.4	6.4
Oil, linseed	1.0	3.0	22.9	31.0	12.6	22.6	17.4	23.8	76.4	103.3	103.3	30.8	30.8
Printing and publishing	16.5	29.5	2.5	51.3	1.4	4.6	2.3	85.9	94.2	512.2	512.2	30.0	30.0
Slaughtering and meat packing	1.5	4.7	2.5	91.3	1.4	4.6	2.3	85.9	94.2	512.2	512.2	30.0	30.0

(*) Expenditures larger than value of product by \$1,490.00—0.2 percent of capital.

TABLE IX.—Percent of Total Expenditure Consumed by Each Item of Expense; Percent of Value of Product Representing Each Item of Expense; Value of Product Representing Percent of Capital; Value of Product Less Total Expense Representing Percent of Capital. Principal Industries at St. Paul: 1905.

INDUSTRY	Per cent of Expendi- ture Consumed by				Per cent of Value of Pro- duct Representing				Value of Product Representing Per cent of Capl- tal	Value of Product Less Total Ex- pense Represent- ing Per cent of Capital	
	Salaries	Wages	Miscell. Expense	Material Used	Salaries	Wages	Miscell. Expense	Material Used			Total
All industries	6.6	21.6	13.4	58.4	5.7	18.8	11.6	50.8	86.9	105.3	13.6
Boots and shoes	2.6	22.4	12.2	62.8	4.5	20.8	11.3	58.4	92.9	157.0	10.8
Bread and other bakery products.....	5.2	15.7	13.1	66.0	2.4	13.9	11.6	58.4	88.4	183.3	21.3
Carriages and wagons	5.0	33.1	7.0	54.9	3.9	26.0	5.5	43.5	78.9	92.8	19.1
Clothing, men's	5.5	23.8	5.4	65.3	4.7	20.4	4.6	55.9	85.6	115.5	16.7
Coffee and spice, roasting and grinding	3.5	5.0	11.6	79.9	3.1	4.5	10.5	72.2	90.3	206.4	19.9
Confectionery	11.8	16.6	15.3	56.3	10.4	14.6	13.5	49.5	88.0	239.4	29.0
Coppersmithing and sheet iron working	7.3	25.8	10.0	56.0	6.1	21.6	9.1	46.8	83.6	175.5	28.7
Foundry and machine shop products.....	9.3	29.5	11.3	49.9	7.4	23.4	9.0	39.7	79.5	104.9	21.5
Fur goods	5.3	16.7	6.8	71.2	4.6	14.4	5.9	61.3	86.2	125.7	17.3
Furniture	6.4	34.4	12.2	47.0	5.5	29.8	10.5	40.6	84.6	152.9	20.6
Liquors, malt	5.6	11.0	53.1	30.3	4.7	9.3	45.0	25.6	84.6	46.9	7.3
Lumber, planing mill products, including sash, doors and blinds.....	4.5	23.2	5.1	67.2	4.0	20.7	4.5	60.1	89.3	168.5	17.9
Printing and publishing, book and job	12.4	38.1	11.6	39.7	9.7	29.7	9.1	29.6	78.1	129.7	28.6
Printing and publishing, newspapers and periodicals.....	18.7	26.5	25.2	29.6	15.6	22.1	21.0	24.7	83.4	156.1	25.8
Saddlery and harness	6.4	16.7	9.0	67.9	5.6	14.8	7.9	59.9	88.2	110.7	12.9
Structural ironwork	6.9	32.9	6.7	53.5	6.7	31.8	6.3	51.6	86.4	124.1	4.4
Tobacco, cigars and cigarettes	6.0	28.8	26.1	39.1	5.0	23.8	21.6	32.3	82.7	218.4	39.5

TABLE X.—Percent of Total Expenditure Consumed by Each Item of Expense; Percent of Value of Product Representing Each Item of Expense; Value of Product Representing Percent of Capital; Value of Product Less Total Expense Representing Percent of Capital. Principal Industries at Minneapolis: 1905.

INDUSTRY	Percent of Expenditure Consumed by					Per cent of Value of Product Representing					Value of Product Representing Percent of Capital	
	Salaries	Wages	Miscell.	Expense	Material Used	Salaries	Wages	Miscell.	Material Used	Total	Value of Product Representing Percent of Capital	Value of Product Less Total Expense Representing Percent of Capital
All Industries	3.2	10.1	8.1	78.6	2.9	9.3	7.6	73.3	93.1	182.3	12.4	
Agricultural implements	9.2	22.4	11.6	56.8	7.4	18.0	9.3	46.8	80.5	104.3	20.3	
Boots and shoes	3.1	23.2	6.5	63.2	3.0	27.2	5.3	60.9	96.4	194.7	7.1	
Boxes, wooden packing	5.8	24.4	7.1	62.7	5.1	21.6	6.2	56.3	88.2	143.2	16.8	
Bread and other bakery products	5.1	15.7	13.1	66.1	4.5	13.9	11.6	58.4	88.4	183.4	21.3	
Carriages and wagons	4.8	34.9	7.5	52.8	4.0	29.3	6.3	44.3	83.9	134.5	21.6	
Clothing, men's	4.7	14.9	6.6	73.8	4.4	14.0	6.2	69.2	93.8	144.5	10.1	
Clothing, women's	8.9	34.8	6.9	50.4	7.6	29.8	5.1	43.2	86.7	226.7	33.6	
Confectionery	11.3	12.2	17.8	58.7	10.4	11.2	16.3	53.7	91.6	196.9	16.3	
Coppersmithing and sheet iron working	3.1	23.6	3.8	69.5	2.7	20.9	3.4	61.6	88.6	232.7	26.2	
Flour and grist mill products	6.3	33.1	12.2	48.4	5.2	27.4	10.1	40.2	82.9	200.9	34.7	
Food preparations	0.7	2.3	4.7	92.3	0.6	2.2	4.6	89.8	97.2	322.0	8.7	
Foundry and machine shop products	9.7	7.1	19.1	64.1	8.6	6.2	16.8	56.3	87.9	283.6	34.4	
Fur goods	8.6	28.9	13.3	49.2	7.3	24.3	11.1	41.3	84.0	111.3	17.8	
Furniture	8.7	18.0	18.0	55.3	7.8	16.2	16.2	49.8	90.0	202.8	20.2	
Hosiery and knit goods	7.4	31.1	14.7	46.8	6.3	26.3	12.4	39.7	84.7	118.8	18.1	
Liquors, malt	7.9	18.5	12.4	61.2	6.2	15.1	10.0	49.6	81.1	150.3	28.4	
Lumber and timber products	9.2	14.9	36.8	39.1	3.1	25.3	16.6	36.1	92.3	31.9	2.5	
Lumber, planing mill products, including sash, doors and blinds	3.5	28.5	18.6	49.4	3.1	25.3	16.6	44.0	89.0	87.8	9.8	
Patent medicines and compounds	3.8	20.6	6.8	68.8	3.4	18.5	6.1	61.9	89.9	142.3	14.3	
Printing and publishing, book and job	9.9	4.0	33.7	52.4	8.5	3.4	29.2	45.4	86.5	268.7	35.8	
Printing and publishing, newspapers and periodicals	12.9	35.9	18.2	33.0	10.6	29.6	14.9	27.2	87.3	145.9	25.9	
Saddlery and harness	22.2	16.7	35.0	26.1	17.9	13.4	28.2	21.0	80.5	149.9	29.3	
Structural ironwork	8.6	17.4	11.1	62.9	8.6	17.3	10.9	62.3	99.1	108.9	0.5	
Tobacco, cigars and cigarettes	5.1	26.4	3.9	64.6	4.8	24.6	3.7	60.3	93.4	108.9	7.4	
	6.6	32.2	21.9	39.3	5.8	28.4	19.3	34.6	88.1	220.2	26.0	

TABLE XI.—Charges in Wage Earners, Average Number and in Total Wages From Those Reported in 1900. Entire State and the Seven Principal Municipalities

	Wage-Earners Average Number		Per cent of Increase	Total Wages		Per cent of Increase
	1905	1900		1905	1900	
Entire state	69,636	68,930	1.0	35,843,145	\$30,596,425	17.1
Duluth	3,987	3,658	9.0	2,185,783	1,778,804	22.9
Mankato	724	620	39.2	2,303,890	1,176,390	72.0
Minneapolis	21,752	19,620	10.9	11,460,385	9,383,404	22.1
St. Cloud	657	507	29.6	352,626	266,387	32.4
St. Paul	14,963	13,019	10.3	7,210,757	5,323,517	35.5
Stillwater	955	829	15.2	454,345	357,718	27.0
Winona	1,863	1,965	*0.6	894,094	828,080	8.0

* Decrease.

TABLE XII.—Changes in Wage Earners, Average Number and in Total Wages in Twelve Selected Industries in the State.

	Wage-Earners Average Number		Per cent of Increase	Total Wages		Per cent of Increase
	1905	1900		1905	1900	
Total for selected industries for state.	44,255	43,242	2.3	\$23,880,152	\$20,754,532	15.1
Boots and shoes	1,714	2,025	*15.4	718,600	719,231	*0.09
Bread and other bakery products.....	1,347	972	38.6	669,929	393,427	70.0
Cars and general shop construction and repairs by steam railroad companies	5,767	4,700	22.7	3,300,180	2,599,387	27.4
Cheese and butter	1,041	740	40.8	238,040	102,036	132.1
Flour and grist shop products.....	4,481	4,036	11.2	2,650,818	2,359,998	12.3
Foundry and machine shop products.....	2,738	3,139	*12.8	1,513,703	1,512,579	6.7
Liquors, malt	1,035	856	20.9	1,689,594	417,832	60.2
Lumber and timber products	17,213	20,524	*16.1	8,651,071	9,493,637	*8.9
Lumber, planing mill products including sash, doors and blinds.....	2,858	1,639	74.4	1,452,831	667,091	122.3
Oil, linseed	353	155	127.7	203,598	81,981	148.3
Printing and publishing	4,246	3,788	14.7	2,505,653	1,807,168	38.6
Slaughtering and meat packing.....	1,352	683	103.9	780,533	303,977	156.8

*Decrease.

TABLE XIII.—Changes in Wage Earners, Average Number and in Total Wages in Selected Industries at Duluth.

	Wage-Earners Average Number		Per cent of Increase	Total Wages		Per cent of Increase
	1905	1900		1905	1900	
All industries	3,987	3,658	9.0	\$2,185,783	\$1,778,804	22.9
Bread and other baking products.....	58	41	38.6	36,040	21,649	61.9
Foundry and machine shop products.....	302	303	*0.3	186,072	196,008	*4.6
Lumber and timber products.....	1,868	1,276	46.4	964,429	652,604	46.3
Lumber, planing mill products, including sash, doors and blinds..	138	51	170.6	76,618	23,060	228.6
Printing and publishing	196	197	*0.5	114,421	118,742	*3.6
Saddlery and harness	101	43	134.9	61,221	22,041	177.7
Shipbuilding, wooden, including boatbuilding.....	97	71	38.6	54,760	41,760	31.1
Tobacco, cigars and cigarettes.....	127	64	98.4	98,150	36,716	167.3

*Decrease.

TABLE XIV.—Changes in Wage Earners. Average Number and in Total Wages in Selected Industries at Minneapolis.

	Wage-Earners Average Number		Per cent of Increase	Total Wages		Per cent of Increase
	1905	1900		1905	1900	
All Industries	21,752	19,620	10.9	\$11,490,385	\$9,333,404	22.1
Agricultural implements	148	151	*1.9	68,900	64,766	7.9
Boots and shoes	429	577	*25.6	177,272	213,665	*17.0
Boxes, wooden, packing	188	166	13.9	92,131	49,947	84.4
Bread and other bakery products	732	481	52.2	349,123	190,064	83.7
Carriages and wagons	171	192	*10.9	94,463	73,006	29.4
Cars and general shop construction and repairs by steam railroad companies	1,634	1,268	28.8	953,349	656,932	45.1
Clothing, men's	377	465	*18.9	124,701	143,416	*13.5
Clothing, women's	224	431	*48.0	51,202	96,430	*46.9
Confectionery	280	180	44.4	82,491	58,532	40.8
Cooperage	550	441	24.7	296,041	241,463	22.6
Flour and grist mill products	2,227	2,071	7.5	1,404,367	1,321,998	6.2
Food preparations	211	159	32.7	85,214	26,964	194.0
Foundry and machine shop products	1,138	1,309	*13.1	684,680	553,418	22.6
Fur goods	174	139	25.1	74,947	49,698	50.6
Furniture	710	536	32.4	326,379	217,991	49.7
Hosiery and knit goods	427	139	207.2	143,754	40,253	257.1
Liquors, malt	251	194	29.4	163,125	124,846	30.7
Lumber, planing mill products, including sash, doors, etc.	3,004	3,017	*0.4	1,467,749	1,490,262	*1.5
Patent medicines and compounds	1,415	900	57.2	766,981	380,970	101.3
Printing and publishing	132	55	140.0	59,132	21,886	170.1
Saddlery and harness	1,362	1,136	19.9	830,797	694,315	39.8
Tobacco, cigars and cigarettes	129	176	*28.7	70,502	84,128	*16.2
	377	336	12.5	183,580	152,395	20.5

*Decrease.

TABLE XV.—Changes in Wage Earners, Average Number and in Total Wages in Selected Industries at St. Paul.

	Wage-Earners Average Number		Per cent of Increase	Total Wages		Per cent of Increase
	1905	1900		1905	1900	
All industries	14,363	13,019	10.3	\$7,219,757	\$5,823,517	35.5
Boots and shoes	1,041	1,019	2.2	456,280	377,458	20.9
Bread and other bakery products	294	263	11.8	156,886	122,652	27.9
Carriages and wagons	161	173	*6.9	79,825	80,729	*1.1
Cars and general shop construction and repairs by steam railroad companies	1,825	1,401	30.3	1,003,544	817,302	22.8
Clothing, men's	894	1,209	*26.0	278,068	355,750	*21.8
Clothing, women's	96	85	12.9	34,886	32,190	8.4
Coffee and splees, roasting and grinding	152	118	28.8	49,602	40,040	23.9
Confectionery	205	208	*1.4	65,010	47,921	35.7
Foundry and machine shop products	683	997	*31.5	409,002	515,928	*20.7
Fur goods	1,003	641	56.5	401,181	253,382	57.9
Furniture	278	225	23.5	170,747	94,556	80.5
Liquors, malt	354	276	28.3	242,409	115,532	109.8
Lumber, planing mill products, including sash, doors and blinds	649	339	91.4	308,189	129,079	138.6
Printing and publishing	1,439	1,295	11.1	951,263	662,135	43.7
Saddlery and harness	277	299	*7.4	148,917	113,663	31.0
Tobacco, cigars and cigarettes	632	562	12.4	275,043	239,977	14.6

*Decrease.

LABOR LAWS

The Legislature of 1901 directed a revision of the public statutes of this state and during the session of 1905 the new code was adopted, to become effective on March 1st, 1906. Chapter 23 contains the revised laws relative to labor, the full text of which follows:

REGULATION OF LABOR

BUREAU OF LABOR

1789. How constituted—Terms—Employees—The bureau of labor shall consist of a commissioner of labor, an assistant commissioner, and a factory inspector, and shall have its office in the capitol. The commissioner shall be appointed by the governor, by and with the advice and consent of the senate, for a term ending on the first Monday of January in the odd-numbered year next ensuing. The other two members shall be appointed for like terms by the commissioner, but all the members shall hold office until their respective successors qualify. The commissioner shall also appoint, and at pleasure remove, two deputies, two assistant factory inspectors, and such other employes as may be necessary, and for whose compensation provision is made by law. One of said deputies or assistant inspectors shall act as inspector of railroads. The factory inspector and his assistants must be persons possessed of practical experience and knowledge in and of the operation of factories, and the appointment of any not so qualified shall be void. The commissioner of labor shall be the head of the bureau, and may assign any other member or employe thereof to any duty imposed thereon by law.

1790. Terms defined—The words "factory" and "mill," as used in this chapter, shall mean any premises where water, steam, or other mechanical power is used in aid of any manufacturing or printing process there carried on. The term "workshop," as so used, shall mean any premises, room, or place, not a factory or mill as above defined, wherein manual labor is exercised by way of trade, or for purposes of gain in or incidental to a process of making, altering, repairing, cleaning, ornamenting, finishing, or adapting for sale any article or part thereof, and to or over which premises, room, or place the employer of such labor has the right of access or control; but the exercise of such labor in a private house or room by members of a family dwelling therein, or by persons a majority of whom are members of such

family, shall not of itself constitute such house or room a workshop. The term "engineering work," as so used, shall mean any work of construction, operation, alteration, or repair of a railroad or street railway, of the works of any gas, telephone, telegraph, water, electric light, or mining company, or upon any sewer, bridge, tunnel, or building erected by a municipality. But nothing herein shall interfere with the powers conferred by law upon the board of railroad and warehouse commissioners.

1791. Duties and powers—Witnesses—The bureau shall enforce all laws regulating the employment of minors and women, for the protection of the health, lives, limbs, and rights of the working classes, and those prescribing the qualifications of persons in trades and crafts. It shall gather statistics relating to all branches of labor, to labor troubles and unions, to Sunday labor, to the industrial and social condition of the laboring classes, and to the condition of industries. In the discharge of its duties, the members and employes of the bureau may enter and inspect any factory, mill, workshop, hotel, restaurant, or engineering work at all reasonable times, and give such directions as may be necessary to enforce the laws. Any member of the bureau or any assistant factory inspector may issue subpoenas and take testimony. A witness shall receive fees as in the district court, but no witness shall be compelled to go out of the county wherein he resides.

1792. Duties of employers—Reports—Preservation of records—On request of the bureau, and within the time limited therein, every employer of labor shall make a certified report to the bureau, upon blanks furnished by it, of all matters covered by the request. The names of persons or concerns supplying such information shall not be disclosed. Every notice, order, or direction given by the bureau shall be in writing, signed by a member of the bureau, a deputy, or an assistant factory inspector, and be served by him, or by any officer or disinterested person, as a summons is served in the district court. Papers so served and all records and documents of the bureau are hereby declared public documents, and shall not be destroyed within two years after their return to or receipt by the bureau.

1793. Orders of bureau, how reviewed—Within ten days after the service of any such order or direction of the bureau, any person aggrieved may apply to a judge of the district court for an order restraining its enforcement, and upon not more than thirty days' notice a hearing may be had before such court, or before three impartial expert referees appointed by the court, who shall file their report within ten days after the hearing. The court may alter, annul, or affirm the order or direction complained of; the decision to be based upon the hearing by the court, or upon the report of the referees. Such decision shall take the place of the original order. In case of affirmance, the losing party shall pay reasonable compensation to the referees, to be fixed by the court; if the decision be against the order, such compensation shall be paid out of the appropriation for support of the bureau.

1794. Violation of local ordinances—Whenever the bureau learns of a violation of a local ordinance for the protection of employes, it shall give written notice thereof to the proper municipal authorities, and take any steps permissible under the ordinance for its enforcement. If such violation be also a violation of a state law, and such local authorities fail to enforce the ordinance within thirty days after receiving from any person written notice of its violation, the bureau, upon petition of such person, shall investigate the same, and take steps to enforce the law.

1795. Report of proceedings—The bureau shall report to the legislature at each regular session. Such report shall contain an account of the doings of the bureau, the statistics gathered by it, a statement of all violations of law which have come to its knowledge, and any proceedings had in consequence, and such recommendations as the commissioner deems proper. The report shall be printed and distributed as in the case of other executive documents.

1796. Penalties—Any officer, agent, or employe of the bureau of labor who shall disclose the name of any person supplying information at the request of the bureau shall be guilty of a gross misdemeanor. Any person who shall refuse to attend or testify in response to its subpoena shall be guilty of a misdemeanor. Any owner or occupant of any factory, mill, workshop, or engineering work, or the agent of such person, who shall refuse to admit thereto an officer, agent, or employe of the bureau seeking entrance in the discharge of his duty, shall be guilty of a misdemeanor.

1797. Salaries, expenses, etc.—Standing appropriation—The commissioner of labor shall receive a salary of twenty-five hundred dollars per year; the assistant commissioner, fifteen hundred dollars; and the factory inspector, twelve hundred dollars. The two deputies and two assistant factory inspectors shall receive one thousand dollars each per year, and the other employes of the bureau such reasonable pay as the commissioner may fix, not exceeding four dollars per day of actual service. The necessary traveling and other expenses of each shall be paid by the state, but no more than three thousand dollars in addition to the annual salaries above specified shall be expended by the bureau in any one year. The sum of twelve thousand two hundred dollars is hereby appropriated annually for the purposes of this chapter.

GENERAL PROVISIONS

1798. Maximum day's work—Unless a shorter time be agreed upon, the standard day's work for hire shall be ten hours. Every employer and other person having control who shall compel any person, or who shall permit any minor under the age of fourteen, to labor more than ten hours in any one day, shall be guilty of a misdemeanor, but persons over fourteen may labor extra hours for extra pay; and this section shall not apply to farm laborers, to domestic servants employed by the week or month, or to persons engaged in the care of live stock.

1799. Hours of labor on state work—No person employed in manual labor upon any work for the state, whether such work be done by contract or otherwise, shall be required or permitted to labor more than eight hours in any calendar day except in cases of extraordinary emergency caused by fire, flood, or danger to life and property, military or naval employment in time of war, and agricultural work.

1800. Same—Stipulation in contracts—Every contract made by or in behalf of the state which may involve the employment of labor shall provide in terms for compliance with § 1799, and for the forfeiture by the contractor to the state of ten dollars for each and every violation thereof. Every inspector or other person whose duty it is to see that such contract is duly performed shall report all such violations to the proper disbursing officer, who shall withhold the amounts so forfeited from the contract price. No sum so withheld shall ever be paid unless the disbursing officer shall first certify to the governor, in writing, that the forfeiture was imposed through an error as to the facts. Every state officer, and every person acting for or in behalf of the state, who shall violate any provision of this section or § 1799, shall be guilty of a gross misdemeanor.

1801. Locomotive engineers, etc.—Hours—Locomotive engineers and firemen shall not be required to serve as such for more than fourteen consecutive hours. At least nine hours, or as many hours less as is asked for by said engineers or firemen, shall be allowed for rest before being again required to go on duty. But nothing herein shall permit any such engineer or fireman to desert his locomotive when, by reason of accident or of delay caused by the elements, another cannot immediately be procured to take his place, nor prohibit him, in any case, from serving longer than fourteen hours if he so desires. Every superintendent or other officer or employer of a railway company who shall order or require any service in violation of this section shall be guilty of a misdemeanor, and such company shall be liable to any engineer or fireman for injuries sustained by him in consequence of such violation.

1802. Seats for females—Every employer of females in any mercantile, manufacturing, hotel, or restaurant business, and every agent in charge of any such business, shall provide and maintain suitable seats in the room where they work, and permit such use thereof by them as may be necessary for the preservation of their health.

1803. Same—The certificate or testimony of any licensed and practicing physician to the effect that, in his opinion, any person is not complying with the provisions of § 1802 in respect to a specified employe, shall be prima facie evidence of a violation thereof. The labor commissioner, upon information of any such violation, shall forthwith cause the matter to be brought to the attention of the proper authorities, and assist in procuring evidence thereof; but this shall not prevent any one else from making complaint and furnishing evidence, nor interfere with any state or county officer in the performance of his duty.

1804. Employment of children—Hours—No child under fourteen years of age shall be employed at any time in any factory or workshop or about any mine; nor shall he be employed in any mercantile establishment, or in the service of a telegraph, telephone, or messenger company, except during the vacation of the public schools. No child under sixteen shall be employed at any time in an occupation dangerous to life, health, or morals; or at any labor, outside of the family in which he resides, before 6 o'clock a. m., or after 7 o'clock p. m. Nor shall he be so employed for more than ten hours in any day, or sixty hours in any week; except that on Saturdays and for ten days prior to Christmas he may be so employed until 10 o'clock p. m., but not longer in any day or week than the hours aforesaid.

1805. Physician's certificate—In the case of any child appearing to be unable to perform the labor at which he is employed, any member or employe of the bureau of labor may require the employer to produce a certificate from some reputable practicing physician of the physical fitness of the child for such work. And a child as to whom such certificate cannot be obtained shall not be employed.

1806. Operating elevators—Age limit—No person shall employ or permit any child under the age of sixteen years to have the care, management, or operation of any elevator, or permit any minor under eighteen years to manage or operate any elevator capable of running over two hundred feet per minute.

1807. Children not to be employed, when—Except as provided in §1808, no child under sixteen years of age shall work for hire during the hours in which the public schools in the place of his residence are in session, unless since his last birthday he shall have attended school at least twelve weeks, six of them in succession; nor shall he be so hired at any indoor occupation, except in vacation of the public schools, or while he is a daily attendant at some day or evening school, unless he can read and write simple sentences in English.

1808. When labor is necessary for support—Whenever it appears upon investigation that the labor of a minor, who would be debarred from employment under the provisions of § 1807, is necessary for his support, or that of the family to which he belongs, the school board or school trustees of the place where he resides may issue a permit authorizing his employment within certain hours to be fixed therein.

1809. Certificate—When necessary—No child under sixteen years shall be employed in any factory, workshop, or mercantile establishment, or in the service of any public telegraph, telephone, district messenger company, or other like corporation, unless the employer shall keep on file the certificate herein required, and a complete list of such employes. Such certificate shall be executed by the school superintendent, where there is one, or by some person authorized by him in writing; elsewhere, by a member of the school board, authorized so to do by its vote. It shall state the name, date and place of birth, and the age of the child, and that he can read at sight, and write in a legible hand, simple English sentences; or that he is a regular attendant at some school, or during the past twelve months has attended school as required by law, or has been lawfully excused therefrom. Attendance at a private school shall be certified to by the teacher thereof on this certificate. The labor commissioner shall prepare and furnish to school superintendents and boards the necessary blanks.

1810. Right of visitation—Every factory, workshop, mine, mercantile establishment, or other place in or in connection with which children are engaged at labor of any kind, shall at all times be subject to visitation by the members or agents of the board of education, or by the governing body of the municipality in which such place of labor is situated.

1811. Penalty for violation—Every parent or guardian of a child under sixteen years of age who shall permit the employment of such child contrary to the provisions of this chapter, and every owner, superintendent, or overseer of any place of labor who shall employ or permit to be employed therein any child contrary to said provisions, or who shall refuse to allow the visitation permitted by law, shall be guilty of a misdemeanor. Failure to produce to any officer or employe of the bureau of labor, or member or authorized agent of a school board or governing body of the city or district in which such child is employed, on demand, the certificate and list required by law to be kept, shall be prima facie evidence of illegal employment.

1812. Wages of minors—To whom paid—Any parent or guardian claiming the wages of a minor in service shall so notify his employer, and, if he fails so to do, payment to the minor of wages so earned shall be valid.

1813. Dangerous machinery—How guarded—All saws, planers, wood shapers, jointers, sand-papery machines, and ironing mangles; all set screws, drums, and machinery, including belts, shafting, cables, and fly wheels; all electrical dynamos and other dangerous electrical apparatus and appliances; and all vats, pans, or other receptacles containing molten metal or boiling liquid, in any factory, mill, or workshop, shall be so located as not to be dangerous to workmen, or, as far as practicable, shall be fenced or otherwise protected. Every dangerous place in or about factories, mills, workshops, and engineering work, near to which any employe is obliged to pass or to be employed, shall be securely fenced, inclosed, or otherwise protected. No grindstone, emery wheel, or machine in any factory, mill, or workshop shall be used when the same is known to be cracked or otherwise defective.

1814. Belt shifters, loose pulleys, etc.—Every owner of a factory, mill, or workshop where machinery is in use shall furnish or cause to be furnished, wherever practicable, belt shifters or other safe mechanical contrivances for the purpose of throwing on or off belts or pulleys; and, whenever practicable, machinery shall be provided with loose pulleys. Exhaust fans shall be provided for carrying off dust from emery wheels and grindstones.

1815. Protection of hoistways, elevators, etc.—Exceptions—Every hoisting apparatus used in the construction of any building, every hoistway, hatchway, elevator, well, and wheel hole in any factory, mill, workshop, storehouse, wareroom, or store, shall be securely protected on each floor by a barrier at least four feet high, which shall be kept closed except when necessarily opened for use. Every elevator car used for either freight or passengers shall be provided with some suitable mechanical device by which it can be securely held in the event of accident to the rope or hoisting machinery; but an elevator whose owner is insured against loss from personal injuries caused thereby, by any authorized insurance company, shall not be subject to supervision by the bureau of labor.

1816. Fire escapes—Doors—Hand rails—Every factory, mill, and workshop or other buildings in which laborers are employed shall be provided with sufficient means of escape in case of fire, by more than one way of egress, each of which shall be at all times free from obstruction and ready for immediate use. Every door leading in or to any such factory, mill, or workshop shall be so constructed as to open outward, when possible, and shall not be so fastened during working hours as to prevent free egress. Substantial hand rails shall be provided on all stairways in every factory, mill, or workshop; and, where females are employed, the stairs regularly used by them shall be properly screened at the sides and bottom.

1817. External fire escapes—If any such factory, mill, or workshop be more than two stories high, it shall be provided with at least one fire escape, and as many more as the labor commissioner may require. Every such fire escape shall be on the outside of the building, connecting on each floor above the first with at least two openings; shall be well fastened and secured, with landings not less than six feet in length and three in width, guarded by an iron railing not less than three feet in height. Such landings shall be connected by iron stairs, not less than two feet wide, and with steps of not less than six inches tread, placed at an angle of not more than forty-five degrees, and protected by a well-secured hand rail on both sides, with a drop ladder, twelve inches wide, reaching from the lower platform to the ground. Such fire escape shall be sufficient if constructed on any other plan approved by the labor bureau. The openings to each fire escape shall be, as far as practicable, from the stairways and elevator shafts, and the ladder of each fire escape shall extend to the roof. Stationary stairs or ladders shall also be provided on the inside from the upper story to the roof. Every such factory, mill, and workshop more than two stories high shall also be provided with inside and outside standpipes, and with hose connected therewith, as required in the case of hotels of the same height, and with one chemical fire extinguisher on each floor, always ready for use.

1818. Cleanliness, etc.—Every factory, mill, and workshop shall be kept clean and free from effluvia arising from any sewer, drain, or privy; be properly ventilated; and provided with privies for the separate use of male and female employees, properly screened, and at all times kept in a sanitary condition. Whenever the labor performed is such as to require a change of clothing, separate dressing rooms shall be provided for the sexes.

1819. Bakeries and confectionery establishments—Every bakery and confectionery establishment shall be of good workmanship, well drained, and constructed and plumbed according to established sanitary principles. Every room used for the manufacture, storage, or sale of bread or other food products shall be light, dry, and airy. The floors and walls of every room used for the manufacture of such food products shall be so constructed as to exclude rats and other vermin, be at all times free from moisture, and kept in good repair. Its floor shall have a smooth surface, constructed of wood, cement, or tile laid in cement, save that, when it is more than four feet below the level of the street or adjacent ground it shall never be constructed of wood. Its walls and ceilings shall be whitewashed at least once in three months, and the floors, utensils, and furniture of such room, and of every room used for the storage or sale of such food products, shall be so arranged as to be easily kept clean, and, together with the wagons used for its delivery, shall be kept in a clean and sanitary condition. No water-closet, earth-closet, privy, ash pit, or sleeping room for workmen shall be in, or communicate directly with, any bakeroom or with the kitchen of any hotel or public restaurant.

1820. Safety appliances not to be removed—No employe in any factory, mill, workshop, or upon any engineering work, nor any other person, by permission or otherwise, shall remove, displace, or destroy any guard for dangerous machinery, or other safety device, which the employer shall have provided under the requirements of this chapter or any other law, save under rules established by the employer thereof.

1821. Report of accidents—Whenever any accident to an employe, resulting in death or requiring the aid of a surgeon, occurs in connection with any factory, mill, workshop, or any engineering work, the employer, superintendent, or agent in charge within ten days thereafter, shall furnish the labor commissioner with written notice thereof, stating as fully as possible the time and place of its occurrence, the name and residence of the person killed or injured, and, in case of injury, the place to which he has been removed.

1822. Interference with employment—No individual, corporation, member of any firm, or any agent, officer, or employe of any of them, shall contrive or conspire to prevent any person from obtaining or holding any employment, or discharge, or procure or attempt to procure the discharge of, any person from employment, by reason of his having engaged in a strike.

1823. Conditions precedent not required—No person, whether acting directly or through an agent, or as the agent or employe of another, shall require, as a condition precedent to employment, any written statement as to the participation of the applicant in a strike, or as to his personal record, save as to his conviction of a public offence, for more than one year immediately preceding the date of his application therefor; nor shall any person, acting in any of the aforesaid capacities, use or require blanks or forms of application for employment in contravention of this section.

1824. Violations of law—Prosecutions—Every person who violates or fails to comply with any requirement of this chapter, or disregards any order, notice, or direction of any member or employe of the labor bureau made in accordance with its provisions, or who obstructs or interferes with any inspection being made pursuant thereto, shall be guilty of a misdemeanor, the minimum penalty whereof shall be a fine of twenty-five dollars, or imprisonment for fifteen days. But whenever notice is required before prosecution, no criminal proceeding shall be commenced until thirty days after such notice, nor then, if within such time the requirements of the notice have been met: Provided, that if such requirement be to put a water-closet or privy in sanitary condition, where the only defect is due to carelessness in its management, only forty-eight hours shall be allowed. In case of application to the court to restrain, the time aforesaid shall not begin to run until the decision thereon.

EMPLOYMENT BUREAUS.

1825. License—Fee—Bond—Any person desiring to conduct an employment bureau or agency, and to receive compensation for his services, shall be entitled to a license therefor upon compliance with the conditions of this section; but this subdivision shall apply to the employment of males only. Application for such license shall be made to the council of the city or village in which the agency is to be established, or, if outside a city or village, to the county board, and the applicant shall pay into the treasury a fee of one hundred dollars. He shall also deliver to such council or board a bond to the state in the sum of ten thousand dollars, conditioned for the payment of all damages sustained by any person engaged by the obligor to labor for others, by reason of any unauthorized act, fraud, or misrepresentation of the obligor or any of his agents or servants. The bond shall be filed with the city clerk, village recorder, or county auditor, as the case may be. So long as the licensee continues to reside or maintain his office at the place mentioned in the license, he may engage in such business in any part of the state.

1826. Memorandum of employment—Damages—Such licensee shall enter in a book kept by him for the purpose a memorandum of the terms of employment of every person engaged by him to work for another, showing the rate of wages, the kind of service, the period of employment, and the name and address of the person for whom the service is to be rendered. He shall furnish to each person so employed duplicate copies of such memorandum, one of which the latter shall deliver to the employer at the beginning of his service. Any person failing, by reason of any fraud, misrepresentation, or want of authority on the part of such agency or bureau, to receive employment as provided in the memorandum, may sue and recover upon the bond all damages sustained by reason of such failure.

1827. Penalties—Every person who shall conduct such employment bureau or agency without first having obtained a license so to do, or who, being so licensed, shall fail to enter such memorandum, or to deliver copies thereof as required by § 1826, shall be guilty of a misdemeanor.

STATE BOARD OF ARBITRATION.

1828. Qualifications—Appointment—Organization—The state board of arbitration shall consist of three members, appointed by the governor by and with the advice and consent of the senate, each for the term of two years and until his successor qualifies; one from among employes of labor, one not an employer of labor and from among persons recommended by a labor union, and the third, who shall be neither an employer of skilled labor nor a laborer, on the recommendation of the other two. If the recommendation be not made within ten days after the qualification of said first two, the governor shall appoint the third member without their recommendation. Vacancies in the board shall be filled by appointment from the class to which the retiring member belonged, and the governor may also remove any member. The board shall select from its members a president and a secretary, and establish rules of procedure, to be approved by the governor.

1829. Application—Hearing—Notice—Whenever a controversy relating to the conditions of employment or rate of wages shall arise between any employer of ten or more persons in the same general business and such employes, the board, upon application, shall visit the locality, inquire into the dispute, hear and advise all parties interested, and, within ten days after the hearing, file with the clerk of the district court a written decision of the controversy. Such application shall be signed by the employer or by a majority of the employes, and shall contain a statement of the grievances, and be verified by one of the signers. An agent may sign on behalf of employes, but he shall produce his written authority to so sign, and the name of his principals shall not be disclosed by the board. Within three days after receipt of such application, the secretary shall give public notice of the hearing, unless such notice be dispensed with by written agreement of the parties. Notwithstanding such agreement, the board may give public notice of the proceeding at any stage thereof.

1830. Procedure—Decision and its effect—The board may summon as a witness any employe who keeps the records of wages in any way involved in the controversy, and require the production of such records; and witnesses shall receive the same fees as paid in the district court. Subpoenas may be issued by any member of the board. In cases where the application is mutual, the decision shall be binding for six months, or until sixty days after notice in writing by either party to the other of an intention not to be bound by such decision. This notice may be given to employes by posting it in three conspicuous places in their place of employment.

1831. Strikes or lockouts—Duties of board—Within three days after the board shall learn that a strike or lockout is threatened or exists between any such employer and his present or former employes, it shall intercede between the parties, and attempt to procure a settlement of the dispute or its submission to a local or the state board of arbitration. The state board may investigate the cause of the controversy, fix the responsibility for its continuance, and publish the facts; and, for the enforcement of the provisions of this section, it shall have the same powers as in cases submitted by application of one of the parties only.

1832. Local boards of arbitration—Any such controversy may be submitted, in writing, to a local board of arbitration to be selected by agreement of the parties. The oath of each member shall be filed with the clerk of the district court. Any vacancy shall be filled in the manner in which the retiring member was selected. In respect to any matter submitted to it, a local board shall have exclusive jurisdiction and all the powers of the state board, and its decision shall have the force and effect agreed upon in the submission. Within ten days after the hearing the board shall file its decision with the clerk of the district court, and forward a copy thereof to the state board.

1833. Report of proceedings—The state board shall report to each regular session of the legislature. Such report shall be printed, and shall contain an account of the doings of the board, a brief history of each controversy and the decision thereof, and suggestions relative to the relations between employer and employe.

1834. Compensation—Standing appropriation—Each member of the state board shall receive as compensation five dollars for each day actually employed in the work of the board, and three cents for each mile necessarily traveled, to be paid by the state. The sum of two thousand dollars is hereby annually appropriated for the purposes of this chapter.

CRIMES AGAINST CHILDREN, ETC.

4935. Endangering life, health, or morals of minors—Every person having the care or custody of a minor who—

1. Shall willfully cause or permit his life to be endangered, his health to be injured, or his morals to become depraved; or who

2. Shall willfully cause or permit such minor to be placed in a situation, or to engage in an occupation, which will be likely to endanger his life, injure his health, or impair his morals—

Shall be guilty of a gross misdemeanor.

4936. Keepers of public places to exclude minors—Whoever permits any person under the age of twenty-one years to be or remain in any dance-house, concert saloon, place where intoxicating liquors are sold or given away, or any place of entertainment injurious to the morals, owned, kept, or managed by him in whole or in part, or shall permit any person under the age of twenty-one years to play any game of skill or chance in any such place, shall be guilty of a misdemeanor, and be punished by a fine of not less than twenty-five dollars.

4937. Minors—Gaming by prohibited, where—How punished—All persons under the age of twenty-one years are prohibited from playing pool or billiards or cards in any saloon or room connected therewith, or in any restaurant or public place of amusement in which tobacco, confectionery, or drinks of any kind, except water, are in any manner disposed of; and every keeper or person in charge of any such place who shall permit or suffer any person under the age of twenty-one years to play pool, billiards, or cards therein shall be guilty of a misdemeanor, and be punished by a fine of not less than twenty-five dollars, or by imprisonment in the county jail not exceeding thirty days.

4938. Use of tobacco by minors—Every person under the age of eighteen years, and every minor pupil in any school, college, or university, who shall smoke or use cigarettes, cigars, or tobacco in any form on any public road, street, alley, park, or other lands used for public purposes or in any public place of business, shall be guilty of a misdemeanor, and punished for each offence by a fine of not more than ten dollars, or by imprisonment in the county jail not exceeding thirty days, for each offence.
furnish any cigarettes, cigars, or tobacco in any form to any such minor person, or who shall permit any such minor person to frequent any premises owned, held, or managed by him, for the purpose of indulging in the use of cigarettes, cigars, or tobacco in any form, shall be guilty of a misdemeanor, and punished by a fine of not more than fifty dollars, or by imprisonment in the county jail not exceeding thirty days, for each offence.

4939. Employment of minors prohibited—Every person who shall employ or cause to be employed, exhibit, or have in his custody for exhibition or employment, any minor actually or apparently under the age of eighteen years; and every parent, relative, guardian, employer, or other person having the care, custody, or control of any such minor who shall sell, let out, give away, or in any way procure or consent to the employment of such minor—

1. As a rope or wire walker, dancer, gymnast, contortionist, rider, or acrobat;

2. In begging, receiving alms, or in any mendicant occupation;

3. In any indecent or immoral exhibition or practice;

4. In any practice or exhibition dangerous or injurious to life, limb, health, or morals;

5. In labor of any kind outside the family of his residence before 7 o'clock a. m. or after 6 o'clock p. m.; or

6. As a messenger for delivering letters, telegrams, packages, or bundles to any known house of prostitution or assignation—

Shall be guilty of a misdemeanor, and be punished by a fine of not less than fifty dollars, or by imprisonment in the county jail for not less than thirty days, or by both.

4940. Cruelty towards children—Every person who shall torture, torment, or cruelly or unlawfully punish any child under the age of sixteen years, or shall compel any such child to labor more than ten hours in any day in a factory, workshop, or mercantile or manufacturing business, or who shall commit any act of cruelty toward such child, shall be guilty of a misdemeanor.

4941. Unlawful confinement of idiots, etc.—Every person who shall confine an idiot, lunatic, or insane person in any other manner or in any other place than as authorized by law, or who shall be guilty of harsh, cruel, or unkind treatment of, or neglect of duty toward, any idiot, lunatic, or insane person under confinement, whether lawfully or unlawfully confined, shall be guilty of a misdemeanor.

COMPULSORY EDUCATION.

1445. Children to be sent to school—Every person having under his control a child between the ages of eight and sixteen years shall send him to some school in which the common English branches are taught during the entire time the public schools of the district in which he lives are taught, unless such attendance is excused in whole or in part by the school board of education of such district, as hereinafter provided.

1446. Excusing attendance—Such board may excuse such attendance when satisfied—

1. That child is in such bodily or mental condition as to prevent his attendance at school or application to study for the period required.
2. That he is properly taught at home or elsewhere in the common branches.
3. That he has already acquired such branches.
4. That he is engaged in some useful occupation.
5. That there is no public school within reasonable distance of his residence.
6. That such person is unable, on account of poverty, to properly clothe such child.

1447. Duties of chairman—The chairman of each school board shall investigate all cases of violation of the provisions of §§ 1445, 1446, and secure prosecutions therefor when proper. Any such officer neglecting to secure such prosecution within ten days after service on him by any taxpayer of the district of written notice of such offense, unless the person complained of is legally excused, shall be liable to a fine of not less than twenty dollars nor more than fifty dollars.

1448. Truant officers—The board of any district may appoint and remove at pleasure truant officers, who shall investigate all cases of truancy or non-attendance at school, make complaints, serve notices and process, and attend to the enforcement of all laws and school regulations respecting truant, incorrigible, and disorderly children, and school attendance. Whenever any truant officer learns of any case of habitual truancy or continued non-attendance of any child hereby required to attend school, he shall immediately notify the person having control of such child to forthwith send to and keep him in school. He may arrest without warrant and take to school any such child, and shall act under the general supervision of the board, or, when directed by the board, under that of the city or district superintendent. Such officers shall receive a salary, fixed by the board appointing them, but no fees.

1449. Truant schools—Such board may maintain ungraded schools for the instruction of children of the following classes, between eight and sixteen years of age;

1. Habitual truants.
2. Those incorrigible, vicious, or immoral in conduct.
3. Those who habitually wander about the streets or other public places during school hours, without lawful employment.

All such children shall be deemed disorderly, and the board may compel their attendance at such truant school, or any department of the public schools, as the board may determine.

1450. Commitment to state training school—Whenever the board determines that the foregoing provisions have been found inadequate to secure the attendance at school of any such disorderly child, or that he is beyond proper control in the truant or other school to which he has been assigned, it shall direct the truant officer to make complaint to a court or magistrate having jurisdiction over misdemeanors in such district or city. Such court or magistrate shall thereupon issue a warrant for the arrest of such child, and proceed to a hearing on such complaint, and if, upon such hearing, the court or magistrate shall decide that such child is disorderly and beyond the proper control of the schools of the district, and under sixteen years of age, he shall sentence him to the state training school; but in case of a first conviction the court, in its discretion, may suspend the sentence.

1451. Penalty—Any person who shall fail or refuse to send to or keep in school any child of whom he has legal charge or control, and who is required by law to attend school, when notified by a truant officer so to do, and any person who induces or attempts to induce any such child unlawfully to absent himself from school, or who knowingly harbors or employs, while school is in session, any child unlawfully absent from school, shall be guilty of a misdemeanor, and shall be punished by a fine of not to exceed fifty dollars, or by imprisonment in the county jail for not more than thirty days. All such fines, when collected, shall be paid into the county treasury for the benefit of the school district in which such offence is committed.

LAWS 1905, CHAPTER 265

An act to amend section 1 of chapter 226 of the Laws of 1899 relating to the education of children and providing for truant officers in ungraded schools.

Be it enacted by the Legislature of the State of Minnesota:

Section 1. That section one (1) of chapter 226 of the Laws of 1899 be and the same is hereby amended so as to read as follows:

Section 1. Every parent, guardian or other person who resides in any school district or city, and who has control of any child or children of or between the ages of eight and eighteen years, shall send such child or children to a public, parochial or private school in each year during the entire time the public schools of such district or city are in session.

Provided, however, that such child or children may be excused from such attendance for the whole or any part of such period by the school board or board of education of the school district or city in which such parent, guardian or person having control resides, upon its being shown to the satisfaction of such board—

(1) That such parent, guardian or other person having control is not able by reason of poverty to clothe such child properly; or (2) that such child's bodily or mental condition is such as to prevent his attendance at school or application to study for the period required; or (3) that such child is taught at home in such branches of study as are usually taught in public schools, subject to the same examination as other pupils of such district or city; or (4) that such child has already acquired the ordinary branches required by law; or (5) that such child is actually engaged in some useful occupation, employment or service permitted by law.

Section 2. This act shall take and be in force from and after its passage.

Approved April 18, 1905.

DUTY TO GUARD FROGS, SWITCHES, ETC.

1993. Construction of switches—In order to guard against accidental injuries to employes and others, every railroad company shall properly adjust, fill, block, and guard all its frogs, switches, and guard rails. Any such company violating this section, in addition to its liability to any person injured or to his legal representatives, shall forfeit to the state not less than five hundred dollars nor more than two thousand dollars; and such violation shall be deemed a separate offence for each period of thirty days that the same shall continue.

LAWS 1905, CHAPTER 316

An act to establish a free public employment bureau in cities of fifty thousand (50,000) inhabitants, or over, and to provide for the conduct and maintenance of the same.

Be it enacted by the Legislature of the State of Minnesota:

Section 1. The commissioner of labor of the State of Minnesota is hereby directed to organize and establish in one city in this state containing fifty thousand (50,000) inhabitants, or more, to be chosen by him, a free public employment bureau, for the purpose of receiving applications from persons seeking employment, and applications from employers desiring to employ labor. There shall be no fee or compensation charged or received, directly or indirectly, from persons applying for employment, or from those desiring to employ labor through said bureau. There shall be appointed by the commissioner of labor, for such bureau, one superintendent, who may be removed by the commissioner for good and sufficient cause, such appointment to be made immediately after this act becomes a law, and thereafter at the commencement of the biennial session of the legislature: the salary of such superintendents shall not exceed (\$1,200) twelve hundred dollars per annum.

Section 2. The superintendent of such bureau shall receive and record in a book to be kept for that purpose, the names of all persons applying for employment, as well as the name and address of all persons, firms or corporations applying to employ labor, designating opposite the name and address of each applicant the character of employment desired or offered. Such superintendent shall also perform such other duties in the collection of labor statistics, and in the keeping of books and accounts of his bureau as the commissioner may direct or require, and shall report monthly all business transacted by his bureau, to the office of the commissioner of labor, at the state capitol.

Section 3. Every application for employment by employer or employe which is made to the free employment bureau shall be void after thirty days from its receipt, unless the same be renewed by the applicant. When an applicant for labor has secured the same, he shall within ten days thereafter, notify the superintendent of the bureau upon a notification card provided for that purpose. If any such applicant neglects to notify such superintendent, he or they shall be debarred from all future rights and privileges of such employment bureau at the discretion of the commissioner of labor, to whom the superintendent shall report such neglect.

Section 4. There is hereby annually appropriated out of any money in the state treasury not otherwise appropriated, the sum of seventeen hundred fifty (\$1,750) dollars, or so much thereof as may be necessary, to carry out the provisions of this act.

Section 5. All acts or parts of acts that are in conflict with the provisions of this act are hereby repealed.

Section 6. This act shall take effect and be in force from and after its passage.

Approved April 19, 1905.

BLANK FORMS USED BY THE BUREAU OF LABOR.

1. For inspection purposes:

Date No.....
 Name
 Business
 City County
 Street
 Adult wage-earners, Male..... Female.....
 Under 16 years of age Male..... Female.....
 Hours of labor each day..... each week.....
 Regular night workers, Male..... Female.....
 Regular Sunday workers, Male..... Female.....
 Regular pay-day, weekly, semi-monthly.
 Factory law posted, yes no.
 Work rooms not well lighted.
 Ventilation of work rooms—good, fair, insufficient.
 Sanitation of work rooms—good, fair, bad
 Toilet facilities for employes, in-sufficient.
 Seats for female employes, not provided.
 Stairways not provided with railing, not screened.
 Egress from work rooms and building, in-adequate.
 Fire protection, in-adequate.
 Chemical fire extinguishers, not provided.
 Outside fire escapes, in-adequate.
 All machinery fairly, not well guarded and protected.
 Order, served on

 Notice of compliance
 Inspector.

2. For Inspector's Orders and Return Notices of Compliance.

STATE OF MINNESOTA—BUREAU OF LABOR.

Inspector's Order.

No....., Minn.,190....
 M.....

You are hereby notified to comply with the provisions of
by providing the
 following in.....
 situated at No..... in the.....
 of.....County of.....
 to-wit:

 as required by said law.

.....Inspector.

Notify the Commissioner of Labor, State Capitol, St. Paul, Minn., when
 you have complied with this order, that record thereof may be made.

STATE OF MINNESOTA—BUREAU OF LABOR.

Inspector's Order.

No..... Date.....
 Firm
 City
 Inspector
, Minn., 190..

Commissioner of Labor, St. Paul, Minn.

- This is to inform you that.....have
 complied with the order of the Inspector, of above date and number.

Yours truly,

.....

4. For Labor Organizations and Trade Union Statistics.

TRADE OR INDUSTRY.....

1. Name of Organization.....
2. City or Town..... County
3. When organized..... Present membership.... Men.... Women....
4. If branch of National Organization, give name.....

5. Monthly dues per member, \$.....

Benefits.

6. Sick benefit—How much per week?..... How many weeks?.....
7. Accident Benefit—How much per week?..... How many weeks?.....
8. Strike Benefit—How much per week?..... How many weeks?.....
9. Out-of-work-Benefit—How much per week?..... How many weeks.....
10. Funeral Benefit—What sum,..... Other benefits:.....

Wages, Time, Etc.

11. Average wages of members per day, male, \$..... female, \$.....
12. Number working hours per day..... per week.....
13. What increase or decrease in wages, if any, since 1904.....
14. What decrease, if any, in number of working hours per day since 1904?

Apprenticeship.

15. Has the organization an established system of apprenticeship.....
16. If so, what are the requirements, rules or regulations?.....

Strikes, Lockouts, Etc.

17. Give particulars of strikes or lockouts during the year 1905 in which the organization has been concerned. State cause, amount of time lost and how settled.....

Date..... 190..

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